ISSUED EVERY WEDNESDAY

DRUG & CHEMICAL MARKETS

Established 1914

A Weekly Business Paper for Those Who Make, Sell, or Buy Chemicals, Dyestuffs, Drugs, Essential and Fatty Oils

VOLUME XII, NEW YORK, JANUARY 24, 1923 No. 4

In This Issue

ISSUED EVERY WEDNESDAY

DRUG & CHEMICAL MARKETS

PUBLISHED EVERY WEDNESDAY BY

DRUG & CHEMICAL MARKETS, INC.

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3 PARK PLACE, NEW YORK, U. S. A.
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80 Fenchurch st., London, E. C. 3.
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40 Gr-Burstah, Hamburg
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Entered as second-class matter, Dec. 7, 1914, at the post office at New York, N. Y., under the Act of March 3, 1879.

SUBSCRIPTION RATES

United States, Cuba and Mexico $4.00 a year; Foreign $5.00 a year, payable in advance. Current Copies, 10 cents. Back Copies, 25 cents. A Binder for this Journal @ $1.00 Postpaid.

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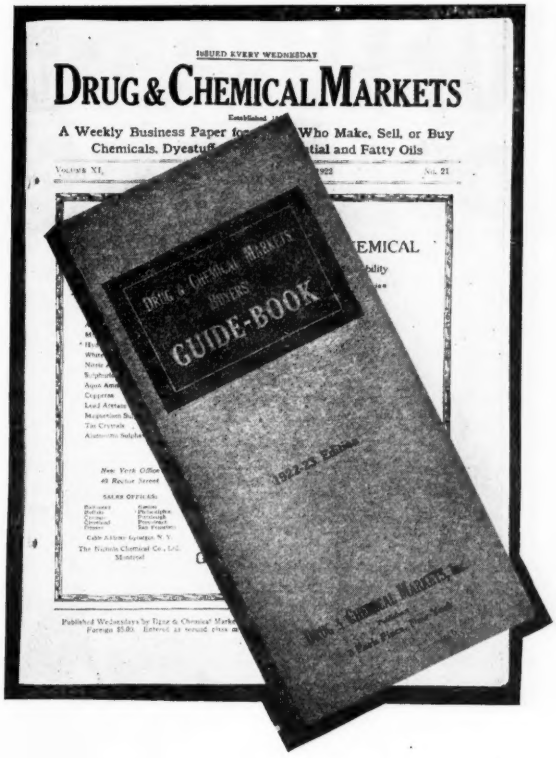

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DRUG & CHEMICAL MARKETS

3 PARK PLACE, NEW YORK

VOLUME XII, NUMBER 4 [JANUARY 24, 1923

ARSENIC ASININITIES

It is just a year ago since an article forecasting a shortage of arsenic for 1923 was published in our columns. At the time an array of statistics was brought forward to prove (sic) that our forecast was ridiculous; but the height of absurdity has only recently been reached.

First Congress refused to place a duty on arsenic that would stimulate American production. Then Congress started an investigation of the corner in available foreign arsenic supplies.

While the president of the American Cotton Association is protesting that at 15c calcium arsenate is too costly a poison for the boll weevil, the special boll weevil expert of the same Association is promising the members 25,000 tons by July 1st at this prohibitive price.

The Department of Agriculture estimates the available supply of arsenic from foreign and domestic sources at 6,455 tons and says there is an actual demand even at present prices for about 12,000 tons.

Meanwhile, the price goes up despite futile investigations and foolish promises; and the boll weevil evil spreads.

If producers, consumers, and importers can get together, some kind of a definite arrangement satisfactory to all can be brought about. The heavy demand exists, and the problem, when all is said and done, is to satisfy it at right prices and under satisfactory conditions. Why not a producer-consumer-importer committee with real powers?

THE SALESMEN'S REPORT

After several months of sifting out the facts surrounding the Chemical Exposition and its management, a committee of the Salesmen's Association of the American Chemical Industry has rendered a report which more or less recommends the "old show" under the Payne-Roth direction, but at the same time, calls for some drastic changes in the conduct of the Exposition each year. The report suggests definite means to revivify the Exposition, and to halt the drift away from a true chemical exposition toward an equipment show. It criticises the management of the Exposition as being inclined too much toward the technical and scientific side of the industry and of not giving sufficient attention to the industrial side, the selling, business, and executive end of the industry. The Advisory Committee also comes in for criticism on the ground that scientists have far outnumbered the business men in this body. The management has not worked in close harmony with the industry, according to the report,—the chemical industry has lacked real representation in the Exposition—but this must be done if future Expositions are to be held and be successes.

The report of the committee is not very enthusiastic in the matter of a co operative show. It agrees that this would give the industry full control of its own exposition, but in the very next sentence points out that the experience of the present management and its assumption of all financial risks must be considered. As far as co-operation with the industry goes, the statements of F. J. Payne, president of the company which runs the Exposition, appear to indicate some willingness on the part of the management to co-operate although these statements are very vague and hazy when they are actually analyzed. One definite thing the Exposition management has done, however, is to promise to set aside five per cent of the gross receipts, about $5,000, of the 1923 show to be spent by the Advisory Committee on chemical educational work. The report also announces that Mr. Naglevoort, planner of an opposition co-operative show, has definitely withdrawn for 1923.

The Salesmen's Committee is to be commended for tackling a thankless job in trying to straighten out the Chemical Exposition tangle. It will get little credit no matter what the result. Going in to clean up a "dirty industrial wash," particularly where the "washers" are not altogether welcome, is not a pleasant job. The recommendations of the Committee certainly point to a bigger and broader exposition, a typically representative chemical exposition, and it remains to be seen how far the management of the Exposition will go in actually co-operating and carrying out the suggestions embodied in the Salesmen's report.

SALICYLATE PRICES AND PHENOL

When phenol was selling at eight and ten cents per pound on the open market, and twelve cents for Government excess stocks, a year or two ago, manufacturers of salicylates repeatedly stated,—and all the American makers apparently agreed in their opinion on this—that they could not sell salicylic acid at eighteen and twenty cents per pound and make money. In fact, they claimed that salicylates sold at prices ruling in 1920 and 1921 only at material loss to the producers. Even when prices for salicylates began to recover from the low levels of the slump, and prices reached 25c and 26c a pound for U.S.P. acid, the American makers still were unanimous in the opinion that these figures did not as yet mean a profit, but were

actually below cost and overhead. From this it appears that with phenol at one price, salicylic acid prices must be about double the phenol figure before the producers can break even, let alone make a profit.

Recently the market for phenol went to 35c and 40c a pound for spot drums. Salicylic acid, U.S.P., sold at the time, at about 40c per pound as named by American makers, with other salicylates in proportion. With phenol at 35c, obviously 40c was too low for salicylic if its price was to be based on the open market quotation for phenol. Undoubtedly manufacturers were basing their selling price on phenol which they had bought previously at prices below 35c. Be that as it may, last week saw a weakening in the phenol market with slightly lower prices. Coincident with this phenol weakness, the price of salicylic acid was advanced to 45c per pound by producers. The advance called forth some criticism in the daily business press. Why should a derivative go up in price at the same time as the raw material declines?

The criticism of the newspapers is unjust and takes into consideration only the factors which appear on the surface. If the manufacturers went into the market daily and bought their phenol to make salicylates, then the day-by-day fluctuations of the former might have some effect, but as a matter of fact, they must of necessity and in self protection, cover on phenol far in advance. Were the market on salicylic acid to-day determined by the position of spot phenol, it might be closer to 70c than to the 45c where it stands. The fact that the market is no higher than it is, can be laid solely to the fact that American makers are to-day using phenol bought some time ago at prices well below to-day's price. Where criticism is due, let it fall, but before criticizing, a confirmation of actual facts might prevent the creation of numerous wrong and unjust impressions.

TOO VALUABLE A MARKET TO LOSE

The value of the American market to German manufacturers of chemicals may be judged by a glance over the report on Germany's foreign trade during the first nine months of 1922. The United States took more than four million kilos of caustic potash; more than three million kilos of chloride of lime; more than forty-five million kilos of potassium sulfate; more than a hundred million kilos of muriate of potash, and so on through a long list of alkali metals, acids, fertilizer salts, and other industrial chemicals, and every pharmaceutical chemical in demand anywhere in the world.

The chemical trade of Germany is recovering rapidly, and production is increasing. The story in chemicals is the same as in dyes. Protection is necessary for the American industry to prevent a gradual undermining of the domestic manufacturers by means of the peculiar sales methods employed by German producers. In spite of the enactment of the Fordney-McCumber rates, imports continue on a large scale, and competition is severe in many lines, especially in potash, making it difficult, if not impossible, for American producers to keep their plants going. If the market in the United States is valuable to German chemical manufacturers, it should be made equally valuable to American manufacturers.

An increase in the foreign trade in chemicals during 1922 over 1921 is reported by the Bureau of Foreign and Domestic Commerce. This change for the better is significant in view of the fact that the aggregate exports of all classes of American merchandise continued to fall below those of 1921. The recovery in heavy chemicals is particularly noticeable in caustic soda, borax, bleach and fertilizer materials. Many of the percentage gains in quantities of industrial chemicals exported in 1922 over 1921 exceeded 200 per cent. Gains were made also in medicinal and pharmaceutical preparations, amounting to 13 per cent; explosives 90 per cent in quantity and 46 per cent in value; perfumery, cosmetics and toilet preparations, 33 per cent in value.

When the price of wine in France is very low, the growers turn to the casks, where the argol crystals form on the sides, and scrape them clean to supply the cream of tartar factories, and incidentally make a little profit to offset the losses on wine. The year 1922 saw a large grape yield and vin ordinaire, the kind you used to buy, is cheap [in France]. Hence increased quantities of argols will come into the market, probably, and the baking powder companies will find a corresponding increase in the amount of cream of tartar available.

Complaint comes from Budapest that Hungarian cantharides is being invoiced from Germany as the Russian product. Another case of camouflage?

Many Men: Many Minds

Cutting off advertising is like cutting off a foot to save shoe wear.—Financial America.

"This is a day of movement," said Premier Mussolini in a speech before members of the Chauffeurs' Union in Rome. "Every one must increase his gait, in office and in factory."

Speaking of the statement made by Dr. Miller Reese Hutchison that 25,000 tons of calcium arsenate would be available by June, R. N. Chipman, of the Insecticide and Disinfectant Manufacturers Association, said: "No consideration seems to have been given to the fact that this amount of Calcium Arsenate would be anywhere from 300 to 500 per cent more than is needed in the current year or that it will be 200 or 300 per cent more than will ever be needed."

The Badische Anilin-und Soda-Fabrik of Germany has a capacity to produce 800,000 lbs. of indigo each month. Its process starts with alcohol, which is converted into ethylene and then with ethylene chlorhydrin. This latter product is heated with aniline and the oily residue is fused with caustic potash; indigo is at once obtained from this fusion by solution in water and oxidation by air. Were Germany to be drawn into war, this plant might be converted into a mustard-gas plant in scarcely an hour's time.—Hartland Seymour in the Chemical Age [London].

Salesmen's Association Exposition Report

Adriaan Nagelvoort Agrees to Cancel Plans for 1923—F. J. Payne, President of International Exposition Co., Agrees to Share Receipts for Educational and Promotional Work

AFTER three months study, your Committee is convinced that past Chemical Expositions have served the technical branches of the industry almost to the exclusion of its commercial departments; but that a single show, broadened and revised in plan, can serve both better. We believe such an exposition is possible and would be distinctly worth the effort and expense.

This report presents a plan for getting more tangible results. It records also definite accomplishments towards putting this plan into effect. The Committee agrees that in its fundamentals this plan is sound and practical; its details are purposely left flexible.

Unless the Exposition can be revivified, it offers chemical manufacturers no benefits commensurate with the cost. In such an event it may be regarded simply as a technical display for chemists and engineers, a show in which chemicals, as such, have no place. We appreciate the value of a display of the tools of industrial and scientific chemistry; but an Exposition of technical interest mainly accomplishes only a fraction of what might be done for both science and industry. Furthermore, the value of such a show to equipment makers is lessened, if the full buying power of the executive and purchasing departments is not represented. From every consideration, therefore, a real Chemical Exposition is wanted.

The drift towards an equipment show has been natural. Though the dangers of this tendency have been plain for three years past, the show management have made no successful effort to check it. Indeed, their leaning has always been in this direction. Their co-managers (the men in active contact with the industry) have been chemists whose acquaintance and sympathy have been technical rather than industrial. Scientific and operating subjects have predominated the programs, making less appeal to the public and to industrial consumers than to technical chemists. On the Advisory Committee men distinguished in scientific accomplishment have out-numbered business leaders. Finally, the Exposition has been a better natural market-place for equipment than for chemicals, and equipment makers have been the quickest and largest buyers of booth space.

Elements Necessary to Success

These considerations are fundamental since they must be dealt with, if the Exposition is to become a real chemical industry show.

To win again the support of the industry, it must take part in the show management and exercise control especially over the allotment of space, the nature of the exhibits, the program, and the ticket distribution.

To make the Exposition a truly national chemical meeting—and—market-place, a Congress of scientific, trade and consuming associations must be held and so guarantee the attendance of many desirable visitors.

To carry on the logical purpose of educational work to the public, students and chemical consumers a constructive, consecutive program must be worked out.

Jointly these three proposals will, if properly executed, assure the future of a real Chemical Exposition.

To accomplish this end the management of future Expositions must work closely in co-operation with the industry. Policy must be guided and plans controlled by what the industry, as a whole, believes is for the common good, and this control is just and proper because the support of the industry is virtually a franchise creating a monopoly in chemical shows. Even a private corporation conducting the Exposition must fairly share the profits with the industry.

The attendance problem can best be solved by holding a Congress of chemical and consuming industries. A common program, to avoid conflicts, can provide common entertainment features with one gigantic chemical industry banquet. The meetings of the participating associations would have to be a new and special type, devoid of routine business and paper reading, designed as get together gatherings to discuss one or two big fundamental problems of broad interest.

Whether a co-operative show or one managed by a private corporation for profit can best serve the industry, is a question your Committee has studied carefully. A co-operative show would obviously give that control we find essential to success. The present management, on the other hand, has an experienced organization and assumes all financial risks.

Adriaan Nagelvoort, who has proposed to conduct a co-operative show, has expressed himself as willing to work with the industry along the lines we have suggested.

Appointment of Chemical Council Favored

To learn the measure of co-operation which the International Exposition Company would give in executing these plans, your Committee asked certain questions of their president, F. J. Payne, and have had his definite replies. These follow:

Question 1—Will the International Exposition Co. give an active part in the management of exhibits and the arrangement of program into the hands of a Chemical Council composed of representatives of all leading trade and technical associations in the chemical and chemical equipment industries?

Answer 1—We would be very glad to have your Association appoint a committee to be called a "Chemical Council" if so desired; this committee, or council, to co-operate with the present or any future Advisory Committee and the International Exposition Company, looking to the betterment of exhibits and the arrangement of program for the best interests of all concerned, it being understood that the business management is to remain in the hands of our company.

Question 2—Will your Company again enter into a contract with the Advisory Committee, setting aside a definite percentage of the receipts of the Exposition to be used, at the direction of the proposed Chemical Council, for educational and promotional work in connection with the Chemical Congress and Exposition?

Answer 2—We will enter into an arrangement with the Advisory Committee, agreeing to set aside a per cent of the gross receipts to be used for educational and promotional expenses in connection with a Chemical Congress or Convention to be held at the same period as the exposition. All expenditures to have the approval of the Advisory Committee and we to have the assurance of your Association and Committee that you will use your best efforts to assist in securing exhibits and publicity, and full co-operation of the various publications.

Question 3—If it were deemed advisable, would your Company postpone the Show with the object of re-organizing and putting across a great Exposition in 1924?

Answer 3—Experience has shown us that it would be most unwise to make any effort to postpone the exposition for 1923. Greater effort should be put behind the 1923 Exposition, and if we can work in full accord, as we have every reason to believe we can, there is plenty of time between now and next September to bring about the greatest Exposition of Chemical Industries ever held.

Question 4—Would your Company agree to holding the Exposition every two years?

Answer 4—This brings us to question No. 4, which interlocks with your third question so far as postponement is concerned.

Again experience shows that expositions to be successful and in order to keep up the interest must be held annually; if a year lapses, interest lags and the great foundation work is largely gone and it is almost like building a new exposition. Why lose the years of successful effort? A thought worth considering, however, is the advisability of holding the exposition every other year in some city other than New York, thus changing the personnel of the attendance to a very large degree—this would give New York a Chemical Exposition every two years.

Exposition Co. Contributes $5,000

At the instance of your Committee the Directors of the International Exposition Company voted January 15th to turn over to the Advisory Committee five per cent of the gross receipts of the coming Ninth Chemical Exposition. This sum, which Mr. Payne estimates at not less than $5,000, is to be spent by the Advisory Committee for the common good of the industry, on educational and other work in connection with the Exposition.

The question of better representation for the executive and sales departments of the industry upon the Exposition's Advisory Committee has been taken up with their Chairman, Dr. Chas. H. Herty, who has expressed his belief that this would be a benefit to all concerned which the Advisory Committee would be glad to put into effect by increasing its number. The executive and sales experience of half a dozen or more business leaders on the Advisory Committee would, we feel, be very valuable in developing the commercial and educational features of the Exposition and in securing more vigorous co-operation between the management and the chemical manufacturers.

Dr. Herty has invited your Committee to meet with the Advisory Committee in order to confer on the new personnel of the Advisory Committee and to lay before them suggestions and offers of co-operation which we have received from many associations, firms, colleges and individuals in response to our questionnaire which was the subject of our preliminary report.

Nagelvoort Withdraws 1923 Plans

After further consultation with your Committee, Mr. Nagelvoort has agreed to withdraw definitely his tentative plans for a co-operative show in 1923. He takes the liberal view that the measure of co-operation with the industry which the International Exposition Co. offer should be tried fairly, and for the common good desires not to put the least obstacle in the way of hearty, united co-operation. We commend his attitude and endorse the sentiments he expresses.

With hearty, united support, your Committee believes, now the path has been cleared for closer contact between the Exposition and the industry, that a real Chemical Show and a great Chemical Congress is made practical. We feel that that we have been somewhat helpful in clearing this path and that it is the privilege of the new Advisory Committee and the duty of the chemical industry to broaden it into a highroad to success. We therefore ask the Salesmen's Association to receive and support this report, and to discharge their committee.

There is no minority report.

(Signed)

WILLIAMS HAYNES, Chairman
GEORGE M. DUNNING
J. WRENCH
A. C. KALBFLEISCH
WALTER GOFF
JOHN W. BOYER, *ex-officio.*

A list of dye imports will be published monthly by the Department of Commerce, beginning with January.

PHILADELPHIA SALESMEN'S NEW COURSE

The Chemical Club of Philadelphia has arranged with Dr. Owen L. Shinn, professor of applied chemistry at the University of Pennsylvania, to give its course in "Chemistry for Chemical Salesmen." At a meeting of the Club on Jan. 15 at the Philadelphia Bourse, the plan was unanimously approved by the members. Opinions indicated that the maximum of 75 members for the first class would very shortly be exceeded, judging by the way applications were coming in to Secretary W. H. Davis, of Harshaw, Fuller & Goodwin Co.'s Philadelphia office. The prizes offered at the first meeting of the New York Section of $25, $15 and $10 for the best three papers on "The Value of Chemical Training to the Salesman," to be submitted at the close of the course are also open to the Philadelphia group.

NEW OFFICERS OF MONSANTO

Stockholders of Monsanto Chemical Works, St. Louis, have elected the following directors to serve during 1923: John F. Queeny, Gaston DuBois, Beverly D. Harris, Edgar M. Queeny, H. O. McDonough, Joseph D. Lumaghi, Theodore Rassieur.

At the directors meeting the following officers were elected: Chairman of the Board, John F. Queeny; president, Beverly D. Harris; first vice president, Gaston DuBois; second vice president, Edgar M. Queeny; third vice president, Frank L. McCartney; treasurer, H. G. Gunther; secretary, W. R. Phemister; assistant secretary, C. A. Zacher.

Frank L. McCartney's title is now vice president in charge of sales, while Edgar M. Queeny is vice president and assistant general manager.

Leon Forchheimer, of Nuernberg, Germany, was a visitor at San Francisco in January. He is making a tour of the United States seeking raw materials to be turned into finished products in Germany. "We are doing our best to revive our manufacturers and trade," he said, "but in spite of all we can do the political situation has been increasingly unfavorable to us, with the mark steadily dropping lower."

The manufacturers and distributors of various types of food containers, who met with Secretary Hoover in Washington, last week, went on record as being in favor of any standardization in size that could be effected. They recommended that the secretary conduct extensive surveys in order to determine types and sizes of containers which are most useful in the various industries affected.

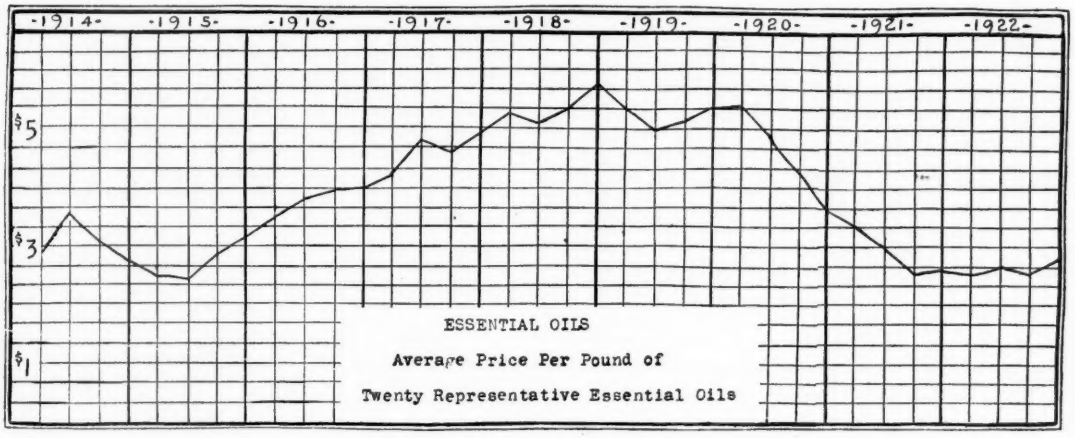
The California Graphite Co. reports the discovery of a deposit of crystalline graphite a mile long, fifty feet wide, that contains approximately 1,000,000 tons of 17-45 per cent pure material. The vein is being worked with one shift and is producing around four tons of graphite per day.

An explosion of chemicals, with which he was experimenting, severely burned James Maple, chemist with the United States Products Co., 685 Eleventh ave., New York, manufacturers of adhesives. The explosion broke every window in the four-story building.

The Joy Chemical Co., Central Falls, R. I., recently incorporated, with capital of $12,000, will deal in finishing materials for the textile industry. Ernest E. Aspinwall, Pary H. Porter and Rodolphus W. Porter, all of Pawtucket, R. I., are the incorporators.

Essential Oil Year Hinged on Tariff

Trade Spent Eight Months of 1922 Anticipating and Four Months Recovering, While Values Remained Virtually Unchanged



THE enactment of the Fordney-McCumber tariff bill was doubtless the most important event of the year in the market for essential oils and aromatic chemicals. Most of the first eight months of 1922 were consumed in anticipating that event and the rest of the year was used to recover from the shock. The higher rates on synthetic products failed to create sharply higher prices, although the list was strengthened materially. Essential oils, which carried some higher duties, were not particularly affected; those placed on the free list dropped off sharply, but recovered somewhat during the past two months.

The year opened rather quietly, business being of a routine nature approaching dullness. The general trend of values showed a falling off until March, when a slight improvement in demand caused a temporary reaction. In April sales fell off badly, however, and prices reached low levels. The new tariff bill was released from the Senate Finance Committee during the second week of that month and soon after buyers assumed an attitude of watchful waiting. The uncertainty in the trade as to when the act would pass Congress and be signed by the President, coupled with the usual summer lethargy, kept actual sales down to a minimum. Even the "seasonal items" seemed a bit dull and colorless. In the fall as sellers were anticipating a revival of consuming interest, passage of the tariff appeared imminent. Buyers of aromatic chemicals withdrew, owing to the uncertainty of the situation. Essential oils, being on the downgrade, and likely to continue in that direction, attracted little interest. The tariff bill became law Sept. 22. Sales covered routine requirements until well into October, when a slight improvement was noted. Values turned about the first of November and buyers became more active. Prices advanced steadily during the last two months of the year.

Of the essential oils sweet almond, eucalyptus and lavender are in the same relative positions which they occupied a year ago. Sandalwood and Italian orange oils are cheaper in spite of the higher duty. Anise and bergamot are lower today than in Jan., 1922, due to the reduction in tariff rates. Although the duty was taken off cassia, citronella and Bourbon geranium, these oils command higher prices.

The following list of a few essential oils and aromatic chemicals shows their various positions Jan. 1, 1922 and 1923:

Product	Jan. 1, 1922	Jan. 1, 1923
Oil Almond, sweet	.40	.40
Oil Anise, technical	.57½	.50
Oil Bergamot	5.00	3.00
Oil Cassia, U.S.P.	1.65	2.15
Oil Citronella, Ceylon	.42	.57
Oil Cloves	2.30	2.00
Oil Eucalyptus	.45	.42
Oil Geranium, Bourbon	5.00	7.00
Oil Lemon, Italian	.65	.65
Oil Lavender	3.00	2.75
Oil Orange, Italian	3.00	2.30
Oil Peppermint, natural	1.70	3.00
Oil Sandalwood, E. I.	7.40	7.00
Oil Wormseed	4.50	4.00
Coumarin	3.75	4.00
Methyl Salicylate	.40	.55
Vanillin	.55	.43
Average	2.40	2.45

Very little can be said regarding aromatic chemicals. Buyers held off for some time previous to the passage of the tariff and the market has been under a cloud since the bill went into effect. The American valuation clause upset the trade considerably. There was no accurate record of just what materials were manufactured in this country and it was many weeks before goods could be brought in. A fair selling price, on which to base the duty, could not be determined in many instances, as several different makers asked various figures. The importers arranged a get-together shortly after the new rates were scheduled, and partially succeeded in clearing up the matter, but considerable work remains to be done in that direction.

Added to the general confusion was the presence of

a great deal of hastily imported goods, brought in on the eve of the tariff passage, and held by outside sellers. The quality of the material was, in many instances, questionable, and the holders offered at any figure in order to effect a turnover. This exerted a certain demoralizing effect on the market and has kept prices down. When the odd lots are cleared away and a more definite idea of American values and sources can be had, prices will probably be generally higher. Consumers will be in a better position, however, as values will be steadier and quality may be higher.

The 1922 history of a few of the more important essential oils and aromatic chemicals follows:

Oil Anise—A routine market existed over the entire year. Price opened at 57½c inside for technical but was early reduced to 55c. Strength and weakness in the Orient caused figures to fluctuate between 50c and 55c although sales at 48c were reported several times.

Oil Bergamot—Opened soft and weak. Market gradually declined from $5.00 to $3.60 when the passage of the tariff caused a sharp falling off to $3.00. Has made sporadic attempts to attain higher levels at various times since Sept., going to $3.15, but $3.00 could be done Jan. 1, 1923. Demand has been poor all year.

Oil Cassia—U.S.P. held strongly at $1.65 in Jan. 1922. Higher shipment figures coupled with fair demand caused price to gradually increase to $1.85 by August 16. This basis held until the tariff went through when values dropped to $1.65. Consumers became active around the middle of November and a rising Oriental market has aided in the steady advance to $2.15. The ban on lead free cassia for use in food products has eliminated it from the market. Technical has not been a factor, owing to restrictions on importation.

Oil Caraway—The past year saw caraway prices in a steady march to higher levels. Quoted a year ago at $1.60, successive advances, owing to the scarcity and high cost of seed, have placed the market on U.S.P. oil at $6.25 inside. Its use has been curtailed considerably.

Oil Citronella—Has seen considerable price activity. Offered at 42c Jan. 1, 1922. Spot shortages in February, June, August and December shot quotations up to peaks at 55c, 56c, 75c and 57c, respectively. Each time the arrival of supplies eased the market and late in October the price was down to 46½c, the lowest point of the year, barring the first few weeks. Closed strong at 57c.

Oil Cloves—Cheaper spice and falling off in demand caused values to recede from $2.30, quoted Jan. 1, 1922, to $1.75, quoted July 19. Spot stocks of spice became smaller at that time and the market mounted steadily to $2.35 Sept. 13. Price fell to $1.90 late in October and then climbed to $2.25 within a month. Shipments of spice have come through during the past month and oil was named at $2.00 Jan. 1 of this year, with prospects of further reductions.

Oil Eucalyptus—Opened soft at 45c inside for cases. Gradually declined, reaching 35c late in May. Continued at 35c through a dull summer. With prospects of higher rate of duty, price advanced September 13. Consuming season set in and quotations increased steadily to 42c Jan. 1.

Oil Lemon—Has had an in and out year—mostly out. Tried to pull clear of the rut several times but large quantities of oil have always smothered the market. Shippers have been unable to hold values up and consumers have been inactive. One flurry sent figures up to 90c early in March but the market rapidly eased off. Low at 60c in July. In spite of higher tariff 65c was done for some time. Stands at 70c today.

Oil Peppermint—Opened rather dull and weak at $1.70. In June country holders strengthened and price advanced steadily to $3.50 late in August. Lack of demand weakened market, however, and values slipped to $2.25 by Nov. 20. Country again became bullish and the price Jan. 1, 1923, was $3.00, with prospects of weakening in near future.

Oil Sandalwood—Quoted at $7.40 early in year but summer dullness coupled with arrival of new crop oil forced prices down to $6.65 in Sept. Tariff had little effect as considerable oil was available. Firmness in producing centers has recently caused sellers to increase figures to $7.00 **inside.**

Oil Geranium, Bourbon—Moved between $5.00 and $5.75 during most of the year, keeping pace with condition of spot stocks and shipment prices. Acute scarcity of good grade oil during last month of year sent price to $7.00 inside.

Oil Wormseed—Scarcity during the early part of the year sent price to $4.50. Demand fell off, however, and by the latter part of May values had reached $3.00. Approach of new crop, coupled with dullness caused reductions to $2.15 by July 1. As crop developed country holders became bullish and spot price was advanced to $2.40 Aug. 2. Has increased steadily since then and was held at $4.00 Jan. 1.

Coumarin—Keen competition between importers and domestic makers for limited amount of business available caused price to sag from $3.75 in Jan. to $3.00 in April. Summer was rather dull until August when scarcity of goods sent price to $3.50. Makers advanced to $4.00 when tariff prohibited sale foreign made products. Market closed active.

Methyl Salicylate—Trading of a routine nature featured first half of year, price being reduced Jan. 25 to 35c from 40c. First of a series of advances, due to rising phenol costs, occurred July 12. Successive increases the last being due to higher cost of methanol (wood alcohol), left quotations on drums at 55c. Demand was very good during latter part of year, some makers being sold weeks ahead of production.

Phenylethylalcohol—Slid from $7.50 in Jan. to $4.00 in May as sellers engaged in keen competition for little business passing. Remained quiet and unchanged through the summer. Since the tariff went into effect prices have advanced steadily to an inside of $7.00. Ranges to $10.00 and even higher according to quality.

Vanillin—Market has seen fair routine demand all through the year, with no radical price changes of any nature. Rather keen competition brought on a few reductions and the Jan 1, 1923 quotation on 400 oz. cans was 43coz. as against 55coz. the same time last year.

As far as values are concerned the trade is in the same relative position as it was a year ago. Some items are higher, others are lower, but the general average has changed very little. The outlook, however, is greatly improved. Last January the market was in rather poor condition. Buyers were not active and prices were weakening. Towards the end of the year consuming interest picked up and gains were registered in every direction. In the place of the uncertainty of a year ago we have a firm steady market and the trade is looking forward to its first really good year since the collapse of the post war boom.

Big Export Demand for Heavy Chemicals

Caustic Soda Shipments Increased in 1922 by 238 Per Cent over 1921—Borax Exports Were 296 Per Cent Larger—Bleach 149 Per Cent—Other Industrial Chemicals in Demand Abroad are Potassium Chlorate, Acetate of Lime, Copper Sulfate, Calcium Carbide, Glycerin, Silicate of Soda, Bicarbonate of Soda—Sulfate of Ammonia Shipped in Large Quantities to Dptch East Indies and Japan—Important Sales of Cyanamid

(*Special to* DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 24—Exports of heavy chemicals for the eleven months period, January-November, 1922, increased greatly in volume, although the total value was slightly less than exports for the same period in 1921, owing to falling prices, according to a review of the export trade prepared by Charles G. Concannon, acting chief of the Chemical Division of the Bureau of Foreign and Domestic Commerce. The largest increases as to quantity were in borax, 296 per cent, which rose from 3,658,059 pounds (value $246,658) in 1921, to 14,501,189 pounds (value $735,612) in 1922; caustic soda, 238 per cent, from 40,460,561 pounds ($1,627,334) to 136,900,479 pounds ($4,934,944); chloride of lime, or bleaching powder, 149 per cent, from 14,892,143 pounds ($409,106) to 36,972,472 pounds ($610,684); potassium chlorate, 75 per cent, from 297,002 pounds ($40,961) to 532,416 pounds ($46,876); acetate of lime, 61 per cent, from 15,750,798 pounds ($345,379) to 25,385,756 pounds ($522,700); and copper sulfate, 54 per cent, from 3,153,278 pounds ($198,260) to 4,858,331 pounds ($234,772). Some of the other American heavy chemical sales abroad which have shown marked improvement during this period were calcium carbide, glycerin, soda silicate, soda bicarbonate, washing powder, and crude tar.

On the other hand, benzol decreased only 4 per cent in quantity but 19 per cent in value, from 68,277,375 pounds, valued at $2,888,126, in 1921 to 64,630,735 pounds, valued at $2,353,136 in 1922; formaldehide, from $312,407 to $195,961; sulfuric acid from 12,155,349 pounds, valued at $306,068, to 11,938,403 pounds, valued at $188,057; and soda ash, from 32,699,844 pounds, valued at $800,378, to 26,617,260 pounds, valued at $615,733. Sal soda increased in quantity but fell in value.

The total value of foreign shipments of heavy chemicals for the January-November period, 1922, was $47,668,525, compared with $49,625,532 in 1921.

Of a total for fertilizers and fertilizer materials of 869,129 tons valued at $15,464,228 for the January-November, 1922, period, 136,593 tons, valued at $8,067,562, were sulfate of ammonia. The Dutch East Indies were again the best customers in November, taking nearly one-third of the 9,230 tons exported during the month, while Japan was a close second, receiving 2,193 tons. For the first time in 1922, the sales of calcium cyanamid, or lime nitrogen, were important; during November, 2,514 tons, worth $23,885, were sent abroad, while the total for the 11 months was only 2,536 tons, valued at $25,212. The demand increased for superphosphates (acid phospates) and prepared fertilizer mixtures, while diminishing for phosphate rock.

Research Work Vital in Making Fine Chemicals

New solvents for wood stains, and a wood preservative have recently been developed by chemists of the Norvell Chemical Corp. The laboratories at Perth Amboy, N. J., are thoroughly equipped for research work. The special products made by the company are formaldehyde, hexamethylenetetramine, glycerophosphates, mercurials, benzoates, silver salts, creosote, creosote carbonate, liquid guaiacol and similar industrial and medicinal chemicals. The company was incorporated only three years ago, and since that time has developed the manufacture of all these products.

A coppersmith and machine shop is an important feature of the plant in which practically all the special apparatus and machinery for the various processes are built according to the special designs and requirements of the company. One of the advantages of the plant is its location on the northern shore of the Raritan River, where the company has its own dock. Steamers ply between New Brunswick, Perth Amboy and New York, receive goods for delivery in New York City and transport raw products which arrive by steamers from abroad. With railroad tracks laid directly through the property and a fleet of trucks running every day between New York and Perth Amboy, the distribution of the company's products is as near perfect as possible.

CRISIS IN ARSENIC SHORTAGE COMING EARLY IN 1923, SAYS REPORT TO SENATE

Domestic Producers Can Supply Annual Requirements, but Not Fast Enough to Meet Demand During First Four Months—Rumors That Large Stocks Are Held by Speculators Declared Unfounded

(*Special to* DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 24.—"Increase in demand of calcium arsenate is mainly responsible for the present shortage of white arsenic," says the report submitted to the Senate as a result of an investigation made by B. R. Coad, of the Bureau of Entomology, Department of Agriculture, and G. F. Loughlin, of the Geological Survey, Department of the Interior. Continuing, the report says:

"Domestic production in 1922 was greater than in any preceding year except 1920, but took place mostly in the last third of the year, when there remained insufficient time to satisfy the urgent demand for calcium arsenate which extends to May or June, 1923. Imports have been very low during 1922 and not much improvement is to be expected during the first part of 1923.

"Minimum annual requirements of white arsenic amount to about 12,000 short tons, more than three-fourths of which are needed during the first four months. Domestic producers can supply this quantity, but not fast enough to meet the early requirements of 1923. Every effort is being made by producers and manufacturers to meet these requirements, and considerable arsenic that would ordinarily be used for other compounds is to be diverted to calcium arsenate. Both domestic and imported white arsenic is already largely sold up to April, 1923, and the average price for the advance domestic sales is about 9 cents a pound. The very recent advances in price have evidently been due to manipulation of small lots of imported arsenic, too small to affect seriously the total quantity of arsenic available. Rumors that large stocks of white arsenic are being held by speculators are unfounded.

"Production will no doubt be adequate to meet the requirements of 1924 and subsequent years, if the market is sufficiently stable to encourage producers. A standing committee representing producers, manufacturers, and interested bureaus of the Federal Government has been appointed to study ways and means of establishing the market.

"As regards 1924 and subsequent years, demands equal to that of 1923 can be met by domestic producers if the market for arsenic is sufficiently stable to encourage production. Instability has been characteristic of the arsenic market, particularly since 1917.

"Ability to stabilize the market must depend on ability to foresee well in advance the factors that will influence demand. Producers, manufacturers and consumers acting independently have thus far not been successful forecasters, but some improvement may result from concerted action. With this end in view a meeting is planned for February or March, when manufacture of insecticides for the 1923 season is well advanced, and again in September or October, when plans for the season of 1924 should be laid."

Charles M. Schwab will head a committee of New York business men to enlist trade support for the work of the Arbitration Society of America, and to develop city-wide activities for relieving the congestion of the calendars of the courts through a clearer understanding and a wider use of arbitration in commercial disputes.

Business Brevities

Dr. Francis Carter Wood will be the speaker at the Saturday luncheon of the Chemists' Club on Feb. 3.

Albert H. Higbie, dealer in chemicals, 46 Gold st., New York, is confined to his home by serious illness.

F. F. Griffiths & Co. have begun operating their new pumice stone mill at Hudson River and 48th st. The output for various grades will be twelve tons a day.

The Federal Trade Commission has dismissed its amended complaint in the case of Ida Davis, who is engaged in selling sponges in New York under the trade name of David Davis & Sons.

The Puget Sound Section of the American Chemical Society, Seattle, has elected officers for the ensuing year as follows: Chairman, F. G. Thompson; vice-chairman, A. G. Bissess; secretary, R. W. Ellison; treasurer, G. C. Howard, and councillor, H. K. Benson.

Among recent trade visitors at San Francisco were C. E. Fishel, of the American Cellulose Co., Inc., New York; F. D. Bristley, vice-president Royal Baking Powder Co., New York; R. K. Cobb, Utah Saldura Co., Salt Lake City, Utah, and Thomas L. Smith, vice-president Fleischmann Co., New York.

Foreign sales of explosives for the eleven months of 1922 nearly doubled, rising from 8,563,647 pounds (value $1,979,193) in 1921 to 16,273,166 pounds (value $2,895,449), of which amount dynamite represented an expansion of 4,278,780 pounds, total exports of dynamite for the eleven months being 11,996,785 pounds (value $2,110,455).

The Rutledge Chemical Co., 15 Park Row, New York, purchasing agents for T. Fujisawa & Co., Osaka, Japan, have taken over the following sales agencies: Wm. J. Stange Co., Chicago, manufacturers of pure food colors; R. H. Hussey Co., Watertown, Mass., witch hazel manufacturers; Brandee Chemical Co., Brooklyn, metallic soap makers.

The production of carbon black from natural gas by the high voltage arc is the subject of a report by J. J. Jakowsky, assistant refinery engineer of the Pittsburgh Experiment Station, U. S. Bureau of Mines. The report consists of twelve pages in which the different types of electrical processes are described, with drawings of the apparatus used. A discussion of results and power factor considerations closes the report. The serial number is 2417, Bureau of Mines Reports of Investigations.

Resumption of the use of powerful chemicals in the fumigation of ships at San Francisco, which have been under ban since September, when five public service employees lost their lives, will take place early in the year, according to Dr. R. H. Creel, medical officer at Angel Island. He says that a new deadly gas, consisting of one part hydrocyanic acid and three parts cyanogen chloride, having all the effective properties of cyanide, but containing chemicals that give warning of its presence to fumigators, will be used here and at all other seaports in the future. The new exterminator is the result of a year's work on the part of the Public Health Service and the Chemical Warfare Service of the War Department. Supplies to last three months have been received.

QUOTATIONS ON CHEMICAL STOCKS

	Bid	Asked		Bid	Asked
Air Reduction	60¼	60¾	Hercules Powder ...	97	100
*Allied Chem. & D.	75	75½	Hercules Powd., pf.	102	104
*Allied Ch. & D., pf.	108	110	Heyden Chem	2¼	2⅜
Am. Ag. Ch.....	30¼	30½	Hooker Electro	55	65
*Am. Ag. Ch., pf....	59	60½	Hooker Electro, pf..	60	70
*Am. Cnicle	6¼	7¼	*Int. Agricult.	7½	8½
*Am. Chicle, pf.....	23	..	*Int. Agricult., pf..	33	34
*Am. Cot. Oil.....	18	18⅛	*Int. Nickel	14¼	14¾
*Am. Cot. Oil, pf...	35	37	*Int. Nickel, pf.....	74	75½
*Am. Cyan.	15	20	*Int. Salt	79⅞	..
*Am. Cyan., pf.....	53	56	*Mathieson Alk.	53	54
*Am. Druggist S....	6¼	6⅝	Merck & Co., pf....	86	90
Am. Glue	82	85	Merrimac	83	88
Am. Glue, pf.....	124	126½	Mulford Co.	35	40
*Am. Linseed	31	32	Mutual Co.	150	..
*Am. Linseed, pf...	53	54	*National Lead	125½	127
*Am. Malt	12	13	*National Lead, pf.	112½	114
*Am. Zinc	15¼	16	N. J. Zinc	170	172
*Amer. Zinc, pf....	50	51	Niag. A., pf.....	96	100
Atlas Powder	150	165	Parke, Davis & Co.	74¾	75
Atlas Powd., pf....	85½	90	Penn. Salt	82	84
British Am. Chem..	1	..	People's Gas, Chi..	91½	92
By. Prod. Co.....	57	65	Procter & Gamble..	124	128
Carborundum	135	135½	Procter & Gam., pf..	102	106
Carborundum, pf....	115½	116	Royal Bak. Po.....	123	128
Casein Co.	30	45	Royal Bak. Po., pf..	99	100
Celluloid Co.	92	98	Sherwin-Williams ..	29⅜	30
Celluloid Co , pf....	109	110	Sherwin-W., pf.....	93	97
Ches. Mfg.	215	225	Stand. Ch.	90	100
Ches. Mfg., pf.....	111	115	Swan & Finch.....	22	24
Com'l Solv. A.....	39	44	*Tenn. C. & Chem..	11½	11⅞
Do B	26	29	*Tex. Gulf, Sul.....	61½	61¾
*Corn Products	126¾	126⅞	Union Carbide	63½	64½
*Corn Products, pf.	121	122½	Union Sulphur	..	..
*Davison Chem.	31¾	32	*Un. Drug	79	79¾
Dow Chem.	..	200	*Un. Drug, 1st pf..	46⅛	47
Dow Ch., pf.....	..	103	*Un. Dyewood	42	..
Du Pont de Nem..	110½	112½	*Un. Dyewood, pf..	..	94½
*Du P't de Nem.Db.	85½	86	Un. Gas, Imp.....	50¾	51
Eastman Kodak	95½	97	Un. Gas, Imp., pf..	55¾	56
Eastman Kodak, pf.	110	..	U. S. Gypsum.....	62½	63
*Freeport, Tex., Sul.	20¾	20⅞	*U. S. Indus. Al....	65	65½
Freept. Tex. Sul., pf.	91	93	*U. S. Indus. Al., pf.	97	98¼
*Grasselli	128	132	*Va.-Car. Ch.	24	24¾
*Grasselli, pf.	100	101½	*Va.-Car. Ch., pf....	62½	64
			*V. Vivaudou	16¼	16½

*Listed on New York Stock Exchange

Earnings of the United States Industrial Alcohol Co. are believed to justify the resumption of dividends on the shares in the not remote future. No dividends have been paid on the common since the September quarter of 1921, when $1 a share was paid, following the maintenance of regular quarterly dividends of $2 a share from December, 1919, to June, 1921, inclusive. It was reported in the late fall of 1922 that the company's business was the largest in its history with the exception of that recorded at the height of the war-time prosperity. The new fuel alcohol is in demand and the Atlantic Refining Co. has signed a contract for supplies covering a long period.

Vice Chancellor Alonzo Church of Newark, N. J., has named Abram M. Reynolds of Glen Ridge custodian-receiver for the Alpha Piece Dye Works, Inc., 54 Mill st., Paterson. The application, made by the Williams Bal Co. of Newark, alleges the Alpha Company is insolvent. The Vice Chancellor ordered the Alpha Company to show cause on Jan. 30 why the receivership should not be made permanent.

The directors of American Smelting Securities Co. have declared dividends of 50 cents a share on the Class A stock and 4½ cents a share on the Class B stock. This dividend, which covers the current month, is payable Jan. 31 to stock of record that date. These are the last dividends to be paid by the company, as it will be dissolved at the close of January.

Another petition in bankruptcy was filed last week against the Eastern Potash Corp., 342 Madison ave., New York. The petitioners are George D. Olds, Jr., for $9,600; Robert Courtney, for $3,000; Walter W. Burr, for $25.

MUST NOT ATTACK COMPETITOR'S PRODUCT

(*Special to* DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 24.—It has been decided by the Federal Trade Commission that misrepresentation of a competitor's product, as found in the case of John Bene & Sons, Inc., of Brooklyn, N. Y., is an unfair method of competition. The company is engaged in the manufacture and sale of hydrogen peroxide. The Commission found that the respondent sent to the principal offices of four organizations, conducting a large number of chain stores, a statement and a chemical analysis of a disinfectant known as "Daxol" and sold in such stores. The analysis, the Commission finds, did not truthfully describe the disinfectant and had a harmful effect on the further sale of the product.

The order specifically states that the Bene company must refrain from directly or indirectly publishing or circulating any false, deceptive or misleading statements concerning the product of a competitor, and particularly concerning the product "Daxol."

The capital stock of the Coca-Cola International Co., a recently organized company which has a majority of the capital stock of the Coca-Cola Co., as a result of exchange of stock on a share for share basis, is expected to be introduced into Wall Street in the near future. The same interests, it is understood, control the new company. The International company has in its treasury 251,000 shares of the 500,000 shares of Coca-Cola stock outstanding. Dividends on Coca-Cola International, it is said, will be the same as paid by the old company.

Do you know all there is to know about tetranitromethylaniline? Or of odorometers used for determining the intensity of odors? Or of ancient rock-cutting tools? Or of the making of salt from sea water? These questions are asked by the Bureau of Mines, Washington, D. C., which announces that the "Index of Bureau of Mines Publications," has just been issued, and covers all reports published by the bureau since its organization in 1910, and answers these questions and 5,000 others.

The Granby Consolidated Mining, Smelting & Power Co. plans to assume control of the Canada Copper Corp., Ltd., by increasing its capital from 250,000 to 500,000 shares. A special stockholders' meeting will be held Feb. 8, at which the increase will be voted. About 155,000 shares will be used to purchase the Canadian company.

The Hercules Glue Co. has been incorporated at San Francisco with capital stock of $50,000 by T. G. Haywood, Frank A. Brown, I. D. Byrne, Wesley W. Kergan and J. S. Lamson.

Calumet-Hecla Mining Co. has declared a dividend of $7 a share. On Dec. 15 last a distribution of $5 a share was made. The dividend is payable March 15, stock of record, Jan. 24.

Five thousand shares of American Coke & Chemical Co. Common Trust Certificates sold for $100 at the Auction Salesrooms, 14 Vesey st., New York, last week.

New Incorporations

Nitro Chemical Products Co., New York, $50,000. N. Gray, C. Leventhal, B. Sustrin; attorney, J. M. Kram. 51 Chambers st.

Davys, Wilmington, $550,000. To make chemicals and drugs. Corporation Service Co., Wilmington.

Capital Increases—Charles H. Phillips Chemical Co., Stamford, Conn., $50,000 to $450,000.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 224

CAUSTIC POTASH SCARCE AND HIGHER

Supplies on Spot Limited and Shipment Prices Abroad Have Been Advanced—Copper Sulfate Moving Well—Bleach Makers Sold Up—Little Change in Arsenic Situation

PRICE CHANGES IN NEW YORK
(Stocks in First Hands)

Advanced

Potash, Caustic, ¼c lb. Sodium Prussiate, ¼c lb.

Declined

Barium Chloride, dom., $5.00 ton Barium Carbonate, $5.00 ton

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetic Acid, Glacial....lb.	$.12	$.12	$.12	$.09	$.19½	$.07
Sulfuric Acid, 66 deg..ton	14.00	14.00	14.00	16 50	55.00	20.00
Bleaching Powder, Works .....100 lb.	2.00	2.00	2.00	2.25	9.50	1.50
Copper Sulfate ....100.lbs.	6.00	6.00	6.00	5.55	20.00	4.50
Potash Caustic .....lb.	.07	.06¾	.06½	.06	.87	.08
Saltpetre, gran. .....lb.	.07½	.07½	.07½	.07¾	.35½	.04½
Soda Ash, 58 p.c....100 lbs.	1.80	1.80	1.80	1.75	3.50	.60
Caustic Soda, 76 p.c.100 lbs.	3.55	3.55	3.55	3.60	9.50	1.42
Potassium Bichromate ..lb.	.10	.10	.10	.10	.65	.06¾
Average	**3.068**	**3.068**	**3.068**	**3.319**	**11.06**	**3.14**

Business in heavy chemicals has been quiet during the first few weeks of the new year. The expected resumption in buying has not taken place as was expected after the dull period at the close of last year and the first weeks of 1923. The market, however, remains firm and prices are holding up steadily. Domestic manufacturers have booked considerable business on contract and their plants are busy supplying this demand. Delays in shipping due to the protracted rail embargoes are at present the main difficulties they have to contend with. The crisis in Europe is having a strengthening effect upon prices with the probable curtailment in German chemical production and the consequent advances in shipping prices. Caustic potash has been advanced again on limited supplies, here, and higher shipment prices abroad. Demand for caustic potash has also been increasing. Yellow prussiate of soda is firmer. Copper sulfate has been moving well, but the greatest demand is not expected before next month. Bleach makers are well sold up and have very little to offer. Barium chloride is easier. Alums are in good demand. There is little change in the arsenic situation. Prices are firm and supplies scarce. The same is true of calcium arsenate. Acids and caustic soda are in steady demand.

Acid, Acetic—Improvement in demand has been noted during the past week. Makers are quoting 28 per cent on a basis of $3.17½@$3.42½ per 100lbs at works according to quantity. 56 per cent is quoted at $6.35@$6.60 as to quantity. 70 per cent at $7.94@$8.19. 80 per cent at $9.08@$10.85. Glacial, $12.05@$12.80.

Acid Hydrofluoric—Demand has been along steady lines with makers quoting 30 per cent at 6c@7c as to quantity at works. 48 per cent named at 10c@11c. 52 per cent at 11c@12clb. 60 per cent at 13c@14clb. White acid at 25c@26clb.

Muriatic Acid—Makers have been taking contracts in good volume and the outlook for the future is encouraging. Quotations for 18 degree range from 90c@$1.00 per 100lbs in tanks at works. 20 degree in tanks at $1.00 @$1.10. In carlots of carboys at $1.10@$1.50 as to maker. 22 degree in carlots of carboys at works. Iron-free at $1.35 in carboys. Tanks at $20@$30 ton.

Acid, Nitric—In steady demand with supplies plentiful. 36 degree in carboys quoted at $4.50@$5.00. 38 degree named at $5.25@$5.75 as to quantity. 42 degree, $5.75@$6.50. 44 degree, $6.50@$7.50 as to quantity. C. P. $13.00 per 100lbs.

Acid, Oxalic—Domestic makers are taking on business at 13clb at works. Demand has improved and better business is being done. Imported material is selling at 13¼c@13½clb.

Acid, Sulfuric—Large makers report a good demand for delivery over the next six months on the basis of $14.00@$16.00 per ton for 66 degree as to maker at works. Drums in carlots named at $1.00@$1.25 at works and in less than cars at $1.25@$1.50. 60 degree quoted at $9@$11 in tanks. Oleum in tank cars at works, $17.00@$18.00.

Alums—Makers are in a position to supply the demand at present while demand has not been up to expectations. Ammonia in lump is named at $3.50@$3.65 per 100lbs at works. Ground at $3.65@$3.75. Powdered at $3.90@$4.00. Imported lump offered at $3.25 @$3.50. Potash lump on spot is offered at $3.00@$3.25 by importers. Domestic at $4.25 per 100lbs. Chrome, $5.50@$6.00. Soda, $3.50@$4.00.

Aluminum Sulfate—Makers are moving supplies in steady if not large quantities. Supplies are in better shape. Iron-free is moving on the basis of $2.50@$2.75 in carlots at bags. Imported named at $2.50. Commercial in carlots of bags $1.45@$1.50. In barrels at $1.60.

Ammonium Chloride—Domestic makers are quoting white granulated at 7¼c@8clb as to quantity. Imported named at 6½c@7clb. Gray at works held at 8c@8½clb as to quantity. Lump, 15clb. Demand has been quiet and along routine lines.

Arsenic—Holders of supplies are maintaining prices firm at 15½c@16clb. Demand from consumers is intermittent and with no large buying. Stocks are about in the same position which has characterized the market the past few months. Calcium arsenate is available only in limited quantities. Sales have been made at 19clb f.o.b. Southern points.

Barium Carbonate—Demand somewhat slow and supplies may be had at $70.00@$75.00 per ton.

Barium Chloride—Domestic makers are quoting lower prices at $90.00@$95.00 per ton at works. Importers are asking $92.50@$95.00 on spot. Buying has been slow and the market is dull.

Bleaching Powder—Manufacturers have very little to offer on spot and in many cases their production is sold six months in advance. Spot prices range from $2.25@$2.50 as to quantity and seller. Contracts named at $1.90@$2.00. Imported material is held at $2.10@$2.15.

Copper Sulfate—Movement has been improving but better buying is looked for next month. Makers are quoting $6.00 per 100lbs for carlots, and $6.25@$6.50

for less than cars. Imported goods are offered at $5.75 @$5.80.

Copperas—Supplies are still in very limited quantity. Demand has fallen off slightly but largest maker is unable to make deliveries. Bulk is quoted at $20@$21 per ton at works. In bags at $23 and in barrels at $25@$26 per ton.

Lead Acetate—Buying has not been very active though prices are firm at the recent advance. White crystals are named at 13c@13½clb. Broken at $12.40. Granulated at $12.65. Powdered at 13¾c@14¼c. Brown broken, 12clb.

Potash, Caustic—Stocks have been pretty well taken up on the increased demand and higher prices are being quoted. Spot material named at 7c@7½clb. Shipment prices abroad are said to be 7½clb at present.

Potassium Prussiate—Yellow is firm at 38c@39clb. Red quoted at 85c@90clb.

Sodium Prussiate—Yellow in better demand and is firmer at 18¾c@19clb.

Soda, Caustic—Improved demand for export has been noted. Quotations range from $3.40@$3.55 as to brand. Ex-warehouse in less than cars at $3.72 for standard brands. Contracts are on the old basis of $2.50 per 100lbs, basis 60 per cent, at works.

ONLY AGENTS FOR GERMAN POTASH

According to a statement issued by H. J. Baker & Bro., New York, for the Potash Importing Corp. of America, neither the German potash syndicate nor any other German interest owns stock in the new corporation. The new import company will be all American and has been formed to take over the sale of the German syndicate's potash in the United States as a result of the decision of A. Vogel, for some years American representative of the German syndicate, to retire from business. Mr. Vogel says he notified the German company of his intention about a year ago.

The Syndicate has been contemplating a change in the marketing methods in the United States with the object of reducing distribution costs. The new Potash Importing Corp. will act as selling agents in the United States for the potash producers, according to H. J. Baker & Bro. The details of the sales contract with the Germans and the organization of the American company are not fully completed.

Senator Norris of Nebraska on Monday offered an amendment to the War Department appropriation bill calling for the appropriation of $2,000,000 for the improvement of Nitrate Plant No. 1 at Muscle Shoals, Ala., for the completion of machinery for experimental work, for the extraction of nitrate from the air, for the purpose of lessening the cost of explosives in war, and the manufacture of fertilizer in peace times. The amendment has been referred to the Senate Committee on Appropriations.

Merchandise described on the invoice as Luxsche Gas-reinigungsmasse (gas purifying material, bauxite, crude iron ore) was found to consist of hydrated carbonate, alumina and silica in a special report of the Appraiser It was assessed with duty at the rate of 10 per cent ad valorem under Par. 55, Act of 1913, and was claimed free of duty under par. 518 by protest of the Alpho-Lux Co., New York.

The California Salt Co.'s plant, located on the eastern shore of San Francisco Bay, south of Oakland, Cal, was destroyed by fire last week. The damage is estimated at $300,000.

JAVA IMPORTING MORE CAUSTIC SODA AND OTHER CHEMICALS FROM THE U. S.

Gain in Heavy Chemical Trade Reflected in Report Covering First Ten Months of 1922—Decline in Some Imports From Germany—Great Britain Shows Increases in Many Lines Over 1921.

(*Special Correspondence to* DRUG & CHEMICAL MARKETS)

Amsterdam, Jan. 12.—Imports of chemicals into Java during the first ten months of 1922 show a decided increase over imports for the corresponding period of 1920 and 1921, notwithstanding the slump in business in Dutch East Indian markets since the middle of 1921. Increasing quantities of caustic soda and other heavy chemicals are being purchased in the United States. The following tables show the countries of origin of chemical imports and amounts in kilos:

ALUM

Countries from which imported	1920 kilos	1921 kilos	1922 kilos
Holland	155,477	32,294	62,208
United States	36,170	....	....
Great Britain	198,905	40,212	51,521
Germany	51,000	85,540	194,575
Belgium	54,230	1,040	32,040
Hongkong	144,436	164,122	55,073
Elsewhere	113,128	19,649	47,907
Totals	753,346	342,857	443,324

CALCIUM CARBIDE

	kilos	kilos	kilos
Holland	88,960	90,650	548,425
United States	70,645	119,000	20,000
Great Britain	71,500	10,000	50,000
Germany	....	86,000	66,068
Sweden	344,160	136,218	187,250
Elsewhere	82,893	34,525	43,260
Totals	658,158	476,393	915,000

CAUSTIC SODA

	kilos	kilos	kilos
Holland	110,264	70,745	39,787
United States	1,528,087	55,482	837,724
Great Britain	1,202,782	248,544	889,932
Germany	....	250	75,864
Japan	693,964	3,224	95,165
Singapore	35,093	32,283	50,418
Elsewhere	167,479	32,256	2,321
Totals	3,737,669	412,784	1,990,811

SODIUM CARBONATE

	kilos	kilos	kilos
Holland	366,895	85,627	36,446
United States	356,309	4,102	3,908
Great Britain	1,709,016	790,863	921,267
Germany	....	12,615	58,275
British India	....	16,292	56,302
Japan	2,690	1,231	13,075
Elsewhere	18,263	92	11,235
Totals	2,453,173	910,822	1,100,508

COPPER SULFATE

	kilos	kilos	kilos
Holland	2,553	10,433	19,378
United States	18,123	....	....
Great Britain	93,881	145,000	144,030
Germany	....	11,105	57,979
Japan	40,440	....	....
Elsewhere	10,000	165	7,160
Totals	164,997	166,703	228,547

SULFURIC ACID

	kilos	kilos	kilos
Holland	316,106	649,308	270,344
United States	98,919	37,500	3,382
Germany	....	102,440	697
Japan	569,367	142,260	53,333
Elsewhere	10,735	50,050	8,026
Totals	1,004,127	981,558	335,782

B. H. Crocheron, director of the University of California agricultural extension division, states that some striking results have been obtained by the use of various types of fertilizers in different parts of the state and that experiments are reaching a point where they can be made of definite value to farming interests. The use of lime and sulfur is proving valuable in many places and a great increase in the use of these is predicted.

The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 226

CARBOLIC ACID MOVES UP FIVE CENTS

Small Package Goods Regain Previous Level—Menthol Cut Sharply—Bromides Easier—Santonin Schedule Advanced Three Dollars Per Pound—Imported Citric Acid Firmer—Importers Reduce Hexamethylene and Cream Tartar

PRICE CHANGES IN NEW YORK
(Stocks in First Hands)

Advanced

Acid Carbolic, 5c lb. Acid Citric, imp., ½c lb. Santonin, $3 lb.

Declined

Adeps Lanae, 2c lb. Menthol, 70c lb.
Cream Tartar, imp., ½c lb. Potash Bromide, imp., 1c lb.
Hexamethylene, imp., 5c lb. Sodium Bromide, 1c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetanilid	$.35	$.35	$.35	$.33	$2.00	$.20
Acid Citric, Import	.48½	.48	.48	.43	1.25	.45
Caffeine Alkaloid	3.75	3.75	3.75	4.00	18.00	3.65
Calomel, American	1.25	1.25	1.25	.82	3 43	.90
Camphor, Jap., ref.	.86	.86	.92	.92	3.55	.41
Iodine, Resublimed	4.50	4.50	4.50	3.80	5.00	3.75
Menthol	8.30	9.00	10 00	5.25	13.50	3.00
Morphine Sulfate	5.35	5.35	5.35	4.80	12.80	4.50
Potassium Bromide, Cryst.	.26	.26	.26	.19	4.30	.80
Quinine Sulfate, Imp.	.49	.49	.50	59½	.90	.25
Sodium Salicylate	.52	.52	.47	.30	4.25	.27
Strychnine Sulfate	.84	.84	.84	1.05	2.05	.50
Average	2.24	2.30	2.38	1.88	5.92	1.56

Buyers have not as yet entered the market for appreciable quantities of any medicinal chemicals. Quietness prevails in all quarters and values possess easier tendencies generally. The trade looks for a revival of interest in the near future but does not expect a return to pre-holiday activity. The principal changes this week were to lower levels and the advances were not actuated by heavy demand. Carbolic acid regained the level which it held prior to last week's decline. Santonin was advanced by importers. Bromides weakened under the strain of inactivity and potash and sodium salts are lower. Imported hexamethylene is cheaper. Cream tartar is offered at lower figures. Quicksilver has settled down and appears stronger. Sugar milk continues scarce and firm. Jap camphor for future delivery is softer. Citric acid, imported, is higher. Adeps lanae cut in competition.

Acid Acetylsalicylic—Goods in manufacturers' hands held firmly at $1.05lb. Small amounts of material in outside hands can be had at 90c@95c. Heavy buying continues to keep stocks from accumulating and the trade expects market to remain active well into the spring.

Acid Carbolic—Distributors of U.S.P. crystals covered last week's decline by advancing their schedule five cents per pound. Although spot and import market for large package phenol has not changed the margin of profit was evidently too small to permit last week's low prices to continue in effect. Quotations on various containers follow: 110 lb. tins, 37clb.; 25 lb. tins, 39clb.; 5 lb. tins or bottles, 41c@42clb.; 1 lb. bottles, 46clb.; 1 lb. bottles, liquid, 45clb.

Acid Citric—Lots of imported material available on spot are diminishing and holders are asking higher prices since replacement at current figures is out of question. Single kegs are commanding 49½clb. Acid in quantity offered at 48½c inside. American made product held at 50c for crystals and 51c for powder.

Acid Salicylic—Activity among consumers continues, although most of the material moving is going to contract customers. As phenol is at a standstill price of salicylic acid seems to have reached a peak. U.S.P. in makers' hands at 45c, technical at 42c. Resellers offer limited quantities of U.S.P. at 37c inside.

Adeps Lanae—Cut 2c per pound in competition, although the demand has not fallen off in the least. Hydrous can be had at 21c@22c; anhydrous at 23c@24c. Consumers continue active and market for raw material is firm. Indications point to a revision to previous levels.

Ammonium Bromide—Reported that the openly quoted price on strictly U.S.P. imported goods, 18c@18½clb., can be shaded in some quarters. In fair request. Domestic at 33c.

Camphor—Japanese slabs easy on spot at 86c@88clb. Considerable material held outside of regular channels and is bearing market. Future positions reported soft. Last figure cabled was 81c@82c c.i.f., February delivery. American refiners continue to name 96c nominally for bulk gum in bbls. Jap small sizes $1.00@$1.02; domestic $1.01½@$1.02.

Cream Tartar—Fairly large quantities held on spot. Market dullness caused slight reduction in importers' figures. Now 23½c@24½clb. Domestic product held openly at 26½c unchanged.

Formaldehyde—Makers holding carlots of bbls. at 16c. Less cars at works or spot 16½c. Resellers have practically nothing to offer. Consumers are not as active now as before the holidays and stocks are in better condition. Situation has cleared considerably since first of year and outlook is more promising.

Hexamethylene—Imported goods again cheaper as demand diminishes and stocks increase. Offered at 75c @80clb. and is likely to go lower as outside holders try to effect a turnover. Domestic figure continues at 95c@97clb.

Menthol—Keen competition for limited amount of business passing sent price down as low as $8.00 during the past week. Recovered somewhat and at close cases were variously held at from $8.30 to $8.50 per pound. Shippers ask $7.60 in bond for March shipment and are weak thereat.

Mercury—There were no sales reported at £10, recently quoted out of London. Factors here say that figure was close to actual costs at mines. Buyers did not enter market as they expected additional reductions and when the Spanish Government advanced its official schedule the offer at £10 was quickly withdrawn. Spot goods now stand at $72.00@$72.50 per flask. For shipment £10 7s 6d is named on 500 flask lots. Market appears steady and likely to continue at these figures unless a move to higher levels occurs.

Potassium Bromide—Unusually dull. Virtually no business passing. Imported material has eased off to 15½c@16clb. Domestic grade 26c unchanged.

Potassium Permanganate—Quiet and soft at 15½c@16clb. as to quantity.

Santonin—Advance predicted last week materialized. New level $175.00@$177.00lb. Powder $176.50@$178.50.

Higher import cost responsible. Material in outside hands offered slightly under these figures.

Sodium Bromide—Importers' price dropped off to 16c early in week. Rather heavy buying caused rebound to 17c@17¼clb, which is one cent lower than was previously quoted on strictly U.S.P. material.

Sugar of Milk—No change in situation. Makers quoting 21c@22c for future delivery, being unable to supply material on order. Resellers firm at 22c@23c. Supplies scarce in all quarters.

Fine Chemical Notes

The United Medicine Manufacturers of America will hold its second annual convention at the Hotel Chalfonte, Atlantic City, on April 17 to 19. Last year's meeting was in Pittsburgh.

The Mallinckrodt Chemical Works, St. Louis, announce that they are now offering arsphenamine-Mallinckrodt, a product of their own laboratories which conforms to Government specifications and standards.

Frederick K. Fernald, for the past twenty years connected with the Dr. Miles Medicine Co., Elkhart, Ind., died on Jan. 12, at a sanitarium in Macon, Mo., after an illness of approximately three years. He was sixty-six years of age.

Burt H. Goddin, sales manager of the Hoffmann-La Roche Chemical Works, New York, while in the middle west last week, stopped off at Indianapolis to attend the meeting of the Western Division of the American Pharmaceutical Manufacturers Association.

Exports of medicinal and pharmaceutical preparations advanced from $11,492,619 for the eleven months of 1921 to $12,985,782 in 1922. Foreign shipments of quinine sulfate and other salts of cinchona amounted to 332,873 ounces, worth $207,546, and antitoxins, serums and vaccines to 620,737 ounces, worth $365,368.

At a recent meeting of the directors following the annual stockholders meeting of the J. S. Merrell Drug Co., St. Louis, Cyrus W. Merrell was elected third vice-president and general manager; Merrell P. Walbridge, first vice-president and treasurer; Herbert S. Merrell, Jr., second vice-president; Edward F. Schlueter, secretary, and Richard T. Dunn, sales manager.

The Hy-Gen-Ol Laboratory, Spring Valley, N. Y., has bought the Durant plant formerly owned by the Meadows Chemical Corp., and will continue the manufacture of ammonium ichthyolate. The company plans to make other synthetic organics recently developed by the research department. R. W. Greeff & Co. and R. H. Anderson, New York, are sales agents for the Hy-Gen-Ol company.

NEW CARBON PLANT AT MONROE, LA.

(*Special to* DRUG & CHEMICAL MARKETS)

New Orleans, Jan. 24.—Organization of a subsidiary corporation of the Southern Carbon Co. of Monroe, La., has been announced, according to Reid L. Carr, of New York, secretary of the company. The corporation will build and operate its Louisiana pipe line from the Monroe gas fields to Alexandria. The work of building this line will begin March 1, Mr. Carr says. It will be completed and ready for the delivery of gas Sept. 1.

FRENCH CREAM OF TARTAR OFFERINGS LARGER WITH LOWER PRICE OF WINE

Producers Scrape Barrels for Argols and Lees to Make Up for Loss in Sale of Vin Ordinaire—Heavy Shipments to United States for Baking Powder Companies

The principal center of the cream of tartar trade is Montpellier, France, but large shipments to the United States go to Bordeaux. At Bordeaux they catch frequent steamers for Liverpool, from which point they are shipped on passenger vessels to the United States. The following statement prepared by Wesley Frost, American Consul at Marseilles, shows French exports of tartars and tartaric acid during the first 10 months of the past three years:

French exports of tartars during January-October, 1920, 1921, and 1922

Articles	January-October— 1920 Tons	1921 Tons	1922 Tons
Tartrates of potassium	8,441	4,641	7,023
United States	2,414	640	1,197
United Kingdom	4,673	1,655	3,168
Germany	1,354	2,346	278
Italy			482
Netherlands			621
Other			1,277
Tartaric acid	633	343	422

As explained, heavy American shipments go by way of England and the French export figures are misleading in showing England as the largest taker.

France has 18 cream of tartar factories, located chiefly at Marseilles, Montpellier, Beziers, Aubais, St. Thibery, and Bordeaux. Prior to the war these factories exported something like 6,000 tons of cream of tartar per annum, but this figure has now shrunk to approximately 2,000 tons. The sales are made largely in Australia, Canada, England, and Japan.

In addition to the argol production there are available in the south of France and Algeria each year some 15,000 tons of wine lees taken from the bottom of wine casks, containing from 18 to 20 per cent of cream of tartar. About 3,000 tons of these have been worked up in France, but an additional 4,000 tons are now to be used in a factory which a large American company has just erected at Montpellier. About 2,000 tons of wine lees are also exported to Germany and the remainder discarded.

The 1922 French wine crop was very large and is resulting in low prices. Producers will make up for loss in price by scraping barrels for argols and large offerings are expected.

Of the average figure of 10,000 tons of argols and lees it is estimated that some 4,000 tons find their way to two large American firms whose importing headquarters are at New York City. Of the remaining 6,000 tons some 1,200 go to independent buyers in the United States, 2,000 tons go to England, 2,000 tons are used in France, and 800 tons go to Germany. Many of the largest American baking-powder companies do not buy cream of tartar, as they manufacture alum powders. Even the oldest American baking-powder companies are now adding tartaric acid to their formulas to replace a part of the cream of tartar formerly used. The English baking-powder companies employ a higher proportion of tartaric acid than has been used in the United States until recently.

Paul G. Kaiser of the Meteor Products Co., New York, sailed for Europe last Wednesday on the steamer Paris. He plans to stay about a month and will visit England, Germany and France.

The Intermediate and Dye Market

Current Spot Quotations of Intermediates, see Chemicals, page 224

BENZOL OFFERED FOR PROMPT DELIVERY

Toluol, Xylol and Solvent Naphtha Still In Tight Position—Crude Naphthalene Scarce and in Active Demand—Some Cresylic Acid Available—Strong Demand for Gamma Acid

PRICE CHANGES IN NEW YORK
(Stocks in First Hands)

Advanced
Cresylic Acid, 10c gal.

Declined
No Declines

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Benzene, C.P. .....gal.	$.30	$.30	$.30	$.29	$1.10	$.25
Naphthalene, flake .....lb.	.06	.06	.06	.07½	.16	.03
Phenol .....lb.	.32	.33	.35	.11	1.50	.45
Xylene, 2-deg. .....gal.	.45	.45	.45	.45	..	..
Toluene, pure .....gal.	.30	.30	.30	.30	..	..
Aniline Oil .....lb	.16	.16	.16	.16½	1.40	.10½
Benzaldehyde .....lb.	.60	.60	.60	.45	..	..
Betanaphthol, dist. .....lb.	.24	.24	.24	.30	1.50	.08
Paranitroaniline .....lb.	.74	.74	.73	.77	1.85	.08
Average	0.350	0.351	0.352	0.325	1.25	1.67

Marked improvement in the benzol situation is probably the most interesting feature of the market. Demand fell off somewhat at the close of 1922, and production has been gaining steadily. Benzol is now offered for prompt delivery by several factors. Toluol, xylol and solvent naphtha are still in a tight position, however, and producers are quoting prices only for future delivery. Naphthalene has been in strong demand for delivery over the first six months. Crude naphthalene is scarce and in active demand. Phenol demand is slightly easier and some factors are quoting lower prices for small quantities. In the open market offerings are heard at slightly lower figures than those which have ruled for a month or two. A little cresylic acid is reported available, but it is difficult to obtain at a reasonable price. Pyridine continues scarce. Intermediates have not been moving as well as was expected after the turn in the year. Spot business has dropped off due partly to the fact that many consumers have contracted for deliveries over periods ranging from one to three months. In a few products makers are sold up completely. Price changes are lacking in the most important products. Gamma acid is in strong demand. Paranitraniline is moving well. Aniline is fairly well sold up and makers control the situation.

Coal Tar Crudes

Benzene—Supplies are moving more abundant in makers' hands and in the open market. Production has been improving steadily and demand is slightly easier. Inquiry has been heard for export delivery. Makers continue to quote their schedule of 27c@32c per gallon for 90 per cent as to quantity and 30c@35c for C. P. Resale prices are named at 32c@33c for 90 per cent and 35½c@36½c for C. P. in drums as to quantity.

Cresylic Acid—A small quantity is reported available at $1.35 per gallon. Imported material can be had, but the duty on this brings the price above $1.60 even on the basis of the lowest American selling price. Domestic producers are able to quote for future deliveries only.

Naphthalene—Consumers have been active placing contracts for deliveries over the next six months. Spot demand is also active. Crude is scarce and in strong demand. Flake is quoted at 6c@6½clb as to quantity and maker; balls at 7c@7½clb; crushed, 5clb; crude, 2½c@3clb.

Phenol—Offerings are heard in the open market at 32clb while the range seems to be 32c@35clb as to seller. The material is usually to be taken "as is." One factor is quoting lower prices for small packages, and 250lb drums at 30clb. U.S.P. generally quoted at 35c @40clb.

Toluene—Production is very slow and makers are far behind in their deliveries. Quotations are made on delays of several months before shipment at 30c@35c per gallon as to quantity.

Xylene—No supplies are available at any price, it seems, though quoted at 40c@46c for 5 degree and 45c @51c per gallon for 2 degree range.

Intermediates

Acid, Chromotropic—Makers are offering excess supplies at $1.25lb.

Acid, Gamma—Consumers have shown an active interest and makers are busy making deliveries on contract. Quoted at $1.75@$1.85 according to quantity.

Acid, H—Demand continues strong and present producers are taxed to capacity in meeting orders. Prices range from 75c@85clb as to quantity.

Acid, Monosulfonic—Improved buying has been shown in this commodity with makers naming $2.30lb. in 50lb tins.

Acid, Salicylic—Continued improvement has been shown in this material in spite of the recent advances in price. Technical is moving at 42clb. and U.S.P. at 45clb. Second hands are quoting technical at 38clb.

Acid, Tobias—Makers report fair activity with 250lb. barrels named at $1.30@$1.40.

Alpha-naphthylamine—Demand for this intermediate continues steady and many consumers are placing contracts. Ton lots are quoted at 28clb. and in smaller lots at 29clb.

Aniline Oil—Large producers continue to quote drum lots of ten or less at 16½c@17clb. Supplies are not overabundant and the situation is wholly in the maker's hands.

Benzaldehyde—Prices are firm at 65c@70clb. for technical with demand along routine lines. U.S.P. quoted at $1.40@$1.50lb. F.F.C. named at $1.70@$1.80.

Benzidine—Steady with makers naming 85c@87clb. as to quantity. Demand has not been up to expectations during the past week or two but is expected to improve.

Beta-naphthol—Factors report an increasing demand from consumers both for spot business and in the placing of contracts. The dry base is quoted at 24c@26c as to quantity at works. Sublimed is moving at 55c@60clb.

Dimethylaniline—Makers continue to quote drums at 40c@41clb. as to quantity while tanks are named at 39clb. Demand along routine lines.

Dinitrotoluene—Quotations range from 19c@22clb. according to the maker and quantity.

Meta-toluenediamine—In fair demand with sellers naming 95c@$1.00lb as to quantity.

Ortho-toluidine—Sellers are quoting 14c@16clb depending on quantity though it is possible to shade this price in some directions on a firm bid.

Para-nitraniline—Demand has been active in this commodity and prices are firm at recent higher levels. Quoted at 74c@76clb.

Para-toluidine—Quotations are at a variance depending upon the seller. Some makers are naming 78c@90clb while others are selling at $1.00@$1.10. Demand is quite steady.

Dyestuff Notes

The German aniline dye combine has announced that prices of all its dyestuffs are doubled, the new schedule being effective at once, according to a report from Germany.

The Beacon Color & Chemical Co., 38 India st., Boston, recently filed notice of organization. The company is headed by Edward J. Feeley and F. L. O. Leary, and will manufacture dyes and chemicals.

The dye census which is in progress by the United States Tariff Commission will probably be completed by the first of July, according to officials of the commission. The census work was begun on Jan. 1.

The Federal Trade Commission has dismissed the complaints against the New York Color and Chemical Co. and the Franklin Import and Export Co., Inc., of New York, which deals in dyestuffs and chemicals.

"Dyer's Formulas" for use in connection with 1923 Spring Season Shade Card of the Textile Color Card Association of the United States, Inc., has been issued in a pamphlet of 32 pages by the National Aniline & Chemical Co., Inc. Detailed instructions are given for obtaining the designated shades on skein silk, cotton, wool and leather; and in each case the method of preparing the dye bath with the requisite percentage is given.

The Bureau of Food and Drugs of the Department of Health, New York, in its survey of the food manufacturing industries, has found that certain sausage, frankfurter, and cake manufacturers are using coal-tar dyes in their products for fraudulent purposes. When found in a food factory, these colors will be embargoed, and, unless the use of the color is discontinued, the permit under which the factory is operating will be revoked.

The monthly census of dye imports to be issued by the Tariff Commission and the Bureau of Foreign and Domestic Commerce of the Department of Commerce will be available after Feb. 1, according to an announcement by C. C. Concannon, acting chief of the Chemical Division. The plan is to have the information collected at the Customs Office in New York and probably compiled by the chemical division of the Tariff Commission.

The protest of the Cincinnati Chemical Works for a reduction of 20 per cent in the specific duty of 2½ cents a pound on intermediates under section 501, Group 3, Title V, of the act of Sept. 8, 1916, has been sustained by the board of appraisers. Protests of American Bluefriesveem, Inc., American Dyewood Co., Frederick Henjes, Jr., and Heller & Merz Co. for a 20 per cent reduction on colors under the same act were sustained in part.

RUHR SITUATION AID TO U. S. DYE TRADE

The complete closing down of German chemical plants with the subsequent stoppage of delivery of dyes, not only in this country but all over the world, which would necessarily cut off the flow of Reparation colors, is predicted by men concerned in the importation of German dyes, following the occupation of the Ruhr district by the French. All of the great German chemical plants, with the exception of the Berlin and the Cassella, are in the occupied region, and they believe that it was no small part of the French strategy that dictated the move that has resulted in their obtaining control of the entire German chemical field, and the consequent control of the German nitrates. The French have demanded as part security for their share of the indemnity, 60 per cent of the capital stock of the German dye plants, according to reports from Germany.

The precedent for these demands was set in the Lorraine region during last summer, according to H. A. Metz, of H. A. Metz & Co., where a small German company in the French territory was unable to obtain coal upon which to operate, and the French agreed to supply them with coal, in return for control of 60 per cent of their stock.

Shipments of dyes coming into this country have been small, it is said, and importers have been unable to get their orders filled, even under the more favorable conditions of the last few months. Some German plants have been forced to import English coal for more than six months, and now with the French occupation of the Ruhr further complicating the situation, there seems to be no alternative for the German plants except to close down.

In the event that the closing of the German plants is protracted, American dyestuffs experts look to the resumption of the American export trade in this class of chemicals. China will look to the American manufacturer for synthetic indigo to replace the German product, it is said, and South America probably will be forced to buy here.

Completion of Dam No. 2 and eight complete power units at Muscle Shoals was agreed upon by the House on Jan 19, when it approved of a section of the Army bill appropriating $6,998,000 for the work this year and authorizing the Secretary of War to contract for the expenditure of $10,501,000 more for the hydroelectric machinery and other equipment. Virtual assurance that the House would take up Henry Ford's offer for a lease of the Muscle Shoals nitrate plant was also given by Republican leaders.

A list of non-competitive dyes for tariff purposes has not been formulated as yet, owing to the postponement of the meeting of the Advisory Committee until Friday, Jan. 26 at 2 P.M. at the Appraisers' Stores in New York. American makers, importers, and consumers will be represented at the discussion, at which time it is expected that a definite list will be formulated.

Louis Jaeck, importer and manufacturer of aniline, dyestuffs and chemicals, 257 Front st., New York, retired from business early this month. His nephew, Emile Jaeck, who has been with the company for twenty-eight years, has taken over the business and will operate under his own name.

The Raritan Aniline Works, at Piscataway, N. J., which was sold at public sale on Jan. 8, to B. Lissberger & Co., New York, is to be reopened shortly. It is understood that aniline products, as formerly, will be the output of the plant. The price paid for the plant was $60,000.

The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, page 239

COTTONSEED OIL CONTINUES STRONG

Oleo Oil Is Higher, but Lard Has Eased Off Slightly—Fatty Acids Strong Owing to Higher Cost of Production—Very Little Chinawood Oil Available—Flaxseed Advancing

PRICE CHANGES IN NEW YORK
(Stocks in First Hands)

Advanced

Chinawood Oil, 1½c lb.
Coconut Oil, ⅜c lb.
Cod Oil, 3c gal.
Cottonseed Oil, crude, ¼c lb.
Grease, white, ¼c lb.
Lard, Comp., ½c lb.
Oleo Oil, ¼c lb.
Peanut Oil, refined, 1½c lb.
Peanut Oil, crude, ¼c lb.
Palm Kernel Oil, ¼c lb.
Walnut Oil, ¼c lb.
Sperm Oil, 3c gal.

Declined

Olive Oil, denatured, 5c gal.
Tallow, City extra, ¼c lb.
Turpentine, 3c gal.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Cod Oil, N. F.....gal.	$.62	$.61	$.60	$.44	$1.27	$.36½
Degras, American, bbl..lb.	.04¾	.04¾	.04½	.03¾	.25	.03½
Lard, No. 1.....gal.	.97½	.94	.88	.65	2.90	.92
Menhaden, crd. bbls...gal.	.51	.50	.48	.38	1.20	.33
Neatsfoot, 20 deg. c.t.gal.	1.39	1.39	1.35	1.32	3.45	.96
Red Oil, distilled .....lb.	.11¾	.11¾	.10	.07½	.17	.07
Stearic Acid, T.P.....lb.	.14	.14	.12½	.10½	.33	.12
Coconut, Ceylon Dom., bbls. .....lb.	.09½	.09	.08½	.08¾	.20	.14
Cottonseed, crude, tanks.lb.	.10	.09⅝	.08½	.07⅛	.25	.08
Linseed, carlots .....gal.	.90	.90	.90	.73	1.88	.57
Olive, denatured .....gal.	1.10	1.15	1.15	1.15	4.50	1.05
Peanut, refined .....lb.	.16½	.15½	.12¾	.11	.30	.08
Soya Bean, bbls.....lb.	.12⅜	.12¾	42½	.09	.19½	.07
Average	**0.482**	**0.483**	**0.471**	**0.409**	**1.30**	**0.362**

The market in fixed oils continues to react upward under the influence of light offerings and the continued strength in cottonseed oil. Animal oils remained fairly steady after the advances of the preceding week. Considerable interest was shown in oleo oil and higher quotations are in effect, while tallow eased off slightly. Fatty acids were strong at the recent advance due to the higher costs of production. Very little chinawood oil is available in the market and prices continue to advance. Coconut oil is in strong demand and higher in price. Linseed oil has been quiet, but crushers are holding prices firm on the limited supplies of oil. Flaxseed has been advancing in both domestic and foreign markets. Cottonseed oil was very strong during the week and quotations are higher in all positions. Olive oil foots are in strong demand. Denatured olive oil is cheaper. Peanut oil is in scant supply and higher. Castor oil is firm at the recent advance. Fish oils are nearly exhausted and holders are asking higher prices. Turpentine declined a few cents on light demand. Rosin remained steady.

Vegetable Oils

Castor Oil—Supplies are said to be light and demand has been improving of late. Sellers are quoting No. 1 at 12¾c@13clb in barrels and 14c@14¼clb in cases. No. 3 named at 12½clb. Blown oil is offered at 14¼clb.

Chinawood Oil—The small supplies about are in firm hands are offered sparingly. Sales on spot have been heard at 17clb. Spring shipments from the Orient are said to have been bought up, while quotations for forwards are named at 14¾clb. In tanks at Coast, April forward, 13½clb.

Coconut Oil—In active demand and prices are named at higher levels. Ceylon in barrels named at 9¾c@9¾clb and in tanks at 8¾c@9clb on spot. Cochin higher at 10¼c@10½clb. Manila in tanks at coast 7¾c@8clb. Edible, 10¾c@11c. 1,154 tons of oil were received in New York last week.

Corn Oil—Supplies are not plentiful and prices are firm. Crude in tanks at mills named at 9¾c@10clb and in barrels on spot at 10¾c@11clb. Refined on spot named at 13½clb.

Cottonseed Oil—The recent strength in the cotton and the growing scarcity of seed has made the market strong. Higher quotations are in evidence for all positions and for crude oil. Prime summer yellow on spot at 11clb. Jan. 11.00@11.30. Feb. 11.10@11.25. Mar. 11.30@11.32. April 11.30@11.40. May 11.47@11.48. June 11.50@11.58. July 11.63@11.65. Aug. 11.65@11.67. Crude at mills at 10c bid.

Linseed Oil—Quiet conditions existed in the market during the week, though prices were kept firm due to the smallness of supplies. Crushers are asking 90c per gallon for raw oil on spot and for January to April forward. London oil is higher at 39s. Antwerp advanced 20f to 280f. Flaxseed advanced on scarcity of seed in crushers' hands. Winnipeg May, $2.19½. July, $2.15¾. 1 N.W., May, $2.18½. July, $2.15. Duluth cash $2.97. Jan. $2.95. Feb. $2.84. May, $2.57. July, $2.52. Buenos Aires, $1.73½.

Olive Oil—Supplies of denatured are in considerable supply while demand has been slow. Quoted lower at $1.10@$1.12. Edible at $1.80@$2.20. Foots in good demand with prices firm at 9¼c@9½clb on spot and 8½c@8¾clb for shipment.

Palm Oil—Demand has been slower but prices are firm. Lagos at 7⅜c@8clb. Niger at 7⅜c@7½clb. Bonny Oil Calabar, 7¼c7⅜clb.

Peanut Oil—Supplies are very scarce and the market is strong. Refined in barrels on spot at 16½c@17clb. Crude in buyers tanks at mills higher at 13c@13¼clb. Crude on spot at 14½c@14¾clb.

Perilla Oil—Shipments are quoted at 13½c@14clb. Very scarce on spot and quotations are nominal around 17clb.

Rapeseed Oil—Refined in barrels quoted at 85c@86clb on spot. Blown at 95c@98clb.

Soya Bean Oil—The market continues strong with crude in tanks at coast named at 9c@9½clb. On spot at 11½c@12clb. Refined named at 12¾clb New York.

Animal Oils

Grease—Choice white is higher at 10½c@10¾clb. Yellow firm at 8⅛c@8¼clb. Brown, 7⅞clb. House, 8⅛clb. Bone naphtha, 7¼clb.

Lard Oil—Prices remained firm with edible quoted at 14¾clb. Off prime, 14c. Extra, 13½clb. No. 1, 13c, and No. 2, 12½clb.

Neatsfoot Oil—The market remains firm at the recent quotations. 20 degree cold test named at 18½c@20clb. 30 degree test at 15¼c@15½clb. Prime, 13¾clb.

Oleo Oil—Supplies are somewhat limited and higher prices are being named by producers. No. 1 at 13¾c@14clb. No. 2, 11½c@11¾clb. No. 3, 9½c@9¾clb.

Tallow—Quoted slightly lower on better supplies and easier demand. Edible named at 10½clb and city extra at 8¾c@9clb.

Tallow Oil—Firm at recent prices. Acidless in tanks at 11½clb. Barrels, 12¾clb.

Fish Oils

Cod Oil—Stocks are light and sellers are naming higher prices. Newfoundland in barrels named at 64c@65c per gallon and in tanks at 62c@63c.

Menhaden Oil—Very little remains in sellers' hands and prices are more or less nominal. Sales are reported at 53c for crude at mills. Light strained in tanks at 63c. New York barrels at 65c@67cgal. Yellow bleached 68c @70c. Blown 74c@76cgal.

Sperm Oil—In better demand and prices are firmer. 38 degree cold test held at $1.09 and 45 degree at $1.04 per gallon.

Whale Oil—Stronger outlook with better demand and strength of other oils. Natural winter in barrels New York at 70c@71c gallon. Bleached winter at 74c@77c gallon.

Naval Stores

Turpentine—Prices declined during the week on slow demand. Ex-yard quotations at $1.53 per gallon. Steam distilled at $1.46. Destructive, $1.26. Savannah lower at $1.46.

Rosin—Market was quiet during the week and buying was limited. Former quotations remained steady. B, $6.15. D to I, $6.25. K, $6.30. M, $6.75. N, $7.10. WG, $7.50. WW, $8.00.

Oil Trade Notes

The Manning Oil Mill, Manning, S. C., producing cottonseed oil, was purchased recently by F. D. Hunter.

Lewis R. Atwood, president of the National Paint Oil and Varnish Assn., was the guest of honor at a dinner of the Philadelphia Paint, Oil and Varnish Club held at the Bourse Restaurant on Jan. 12.

Sales managers of paint and varnish manufacturers are being invited to attend a one-day conference of the Sales Managers' Council to be held in Cleveland on June 8. Discussion of paint selling problems will be the object of getting together.

The Philadelphia Oil Trades Association held its tenth annual banquet at the Bellevue-Stratford Hotel, Philadelphia, on Thursday evening, Jan. 18. About 160 attended, among whom was a delegation of thirty men from New York trades, headed by A. I. Dunn of Cook & Swan, Inc.

Toch Brothers and the Durex Chemical Corp. announce removal of their sales offices to 110 E. 42nd st., New York, with telephone numbers 6745-6-7-8 Vanderbilt. In seventy-five years Toch Brothers have moved only four times. The paint and varnish factory is located in Long Island City.

Chicago has been selected for the 1923 joint meetings of the National Paint, Oil and Varnish, Assn., the National Varnish Manufacturers' Assn., and the Paint Manufacturers' Assn. of the United States, as the result of a joint committee meeting held in Chicago on Jan. 18 and presided over by Ernest T. Trigg. The conventions will meet during the week of Oct. 22.

The amount of crude cottonseed oil produced from Aug. 1 to Dec. 31 amounted to 614,360,021 lbs., and the amount shipped out to 542,050,718 lbs., according to the Census Bureau. The supply on hand on Dec. 31, last, was 106,987,536 lbs. The production of refined oil from Aug. 1 to Dec. 31 was 447,222,537 lbs., and the supply on hand on that date was 145,670,996 lbs.

PAINT AND VARNISH EXPORTS GAINING

Although there is still a loss from 1921 of $884,273 in the exports of pigments, paints and varnishes, during 1922, the percentage of decrease has dropped from approximately 18 per cent for the 10 months, January-October, to less than 8 per cent for the 11 months, January-November according to the Chemical Division of the Bureau of Foreign and Domestic Commerce. Since March of 1922 there has been a steady gain each month over 1921, figures for which are:

Exports of Paints and Varnishes.

Months	1921	1922
January	$2,577,342	$ 797,646
February	1,641,269	773,420
March	927,072	1,057,347
April	878,229	938,145
May	777,762	1,020,243
June	829,092	995,202
July	742,306	855,193
August	636,157	906,552
September	644,798	950,980
October	783,766	1,035,763
November	826,563	1,068,668

Some of the individual items of this class for the eleven months of 1922 were: Zinc oxide, 6,841,372 pounds ($514.118); lithopone, $2,964,431 pounds ($156,-800); bone black, 1,922,908 pounds ($108,962); carbon and lamp black, 16,265,409 pounds ($1,904,987); red lead and litharge, 3,173,191 pounds ($275,367); white lead, 8,395,820 pounds ($643,671); enamel paints, 1,309,-131 pounds ($366,120); ready-mixed paints other than flat interior paints, 1,215,637 pounds ($2,463,962); spirit varnishes, 39,977 gallons ($69,493); and oil varnishes, 334,002 gallons ($578,304).

WILL DELINT COTTONSEED CHEMICALLY

(*Special to* DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 24.—A public-service patent has been granted at the request of the Department of Agriculture to Loren G. Polhamus, the inventor of the process of delinting cottonseed with gaseous hydrochloric acid. Chemical delinting with strong sulfuric acid also has been advised, with the probable advantage of disinfecting the seed as well as removing the fuzz, but no safe and practical process of chemically delinting large quantities of seed has been developed. The use of gaseous hydrochloric acid avoids the most serious difficulties, however, of the sulfuric acid treatment. Exposure of the dry seed to hydrochloric acid disintegrates the lint, so there is no need of the wetting, washing and drying of the seed that were the serious difficulties of the sulfuric acid treatment.

Protest of Frank J. Markwalter, New York, for a 5 per cent duty on Tetralene, a liquid detergent soap composed of soap, carbon tetrachloride, and less than 20 per cent alcohol, under Par. 66, Act of 1913, was sustained by the Board of Appraisers.

Robert B. French has been appointed Eastern sales manager for Harshaw, Fuller & Goodwin Co., Cleveland, and will have his headquarters in New York. Mr. French was formerly with Marx & Rawolle, and has had extensive experience in the glycerin business.

The plant of the American Cotton Oil Co. at Atlanta, Ga., was partially destroyed by fire on Jan. 14. The loss of $10,000 was covered by insurance. The damaged portions will be rebuilt at once.

The Crude Drug Market

Current Spot Quotations of Crude Drugs, Page 241

BETTER BUYING IN SOME CRUDE DRUGS

Gives Semblance of Greater Activity to Whole Market —Strong Undertone and Stiffly Held Prices General —Stocks Insufficient to Cover Consumer Demands— Dandelion and Gentian Up—Rhubarb and Tragacanth Easier

PRICE CHANGES IN NEW YORK
(Stocks in First Hands)

Advanced

Celery Seed, ½c lb.
Cloves, Zanzib., 1c lb.
Dandelion Root, 2c lb.
Gambier, ½c lb.
Gentian Root, ½c lb.
Ginger, African, 1c lb.
Cochin, ½c lb.
Pepper, Black, Sing., ½c lb.
White, Sing., ½c lb.
Japan Wax, ½c lb.

Declined

Arabic Gum, Amb. Sts., ½c lb.
Caraway Seed, 1c lb.
Cumin Seed, 2c lb.
Malva Flowers, Black, 10c lb.
Rhubarb Root, 3c lb.
Tragacanth, No. 1, 5c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aconite Root, U.S.P.....	$.40	$.40	$.40	$.22	$.90	$ 12
Buchu Leaves, Short.....	1.10	1.10	1.15	1.08	4.00	.85
Cantharides, Russian	2.00	2.00	2.40	2.50	9.00	2.10
Cocculus Indicus	.03½	.03½	.03½	.06½	.85	.03
Ergot, Spanish	.60	.60	.60	1.03	4.50	.54
Insect Powder, pure	.70	.70	.70	.42	1.00	.28
Ipecac, Cartagena, pwd....	2.00	2.00	1.75	1.60	4.50	1.35
Nux Vomica	.07	.07	.07	.10	.14½	.07
Opium, gum	6.75	6.75	6.75	5.50	30.00	5.00
Rhubarb Root, H. D.....	.42	.45	.45	.50	1.75	.15
Tragacanth, No. 1, ribbon..	1.75	1.80	1.80	2.50	6.00	1.50
Wild Cherry Bk., thin nat.	.09	.09	.09	.09	.21	.07
Average	1.38	1.38	1.37	1.36	5.28	1.00

Broadened movements in a few crude drugs have given a semblance of greater activity to the market generally. Buying throughout the list has continued more or less cramped with the exception of the active products. A strong undertone and stiffly maintained prices, which ordinarily go hand in hand with a market characterized by plentiful orders, still are very prominent in the current situation. The general belief among dealers appears to be that spot stocks and primary market holdings combined are much smaller in their comparative ratio to potential consuming demand for botanicals than they ordinarily are at this time of the year. Gambier, gentian root, dandelion root, peppers, cloves, celery seed and Japan wax are firmer. Caraway seed, rhubarb root, tragacanth gum, cumin seed, and black malva flowers are easier.

Aloes—Curacao aloes slightly easier on spot at 6c@6½clb for cases as to quantity. Whole Socotrine 30c. Cape whole 7c.

Aniseed—Spanish seed strong at 25clb spot with demand rather quiet owing to the high price. Small sales at 25½c and 26c. Star seed at 15clb.

Arabic Gum—While 19c spot bales appeared best for amber sorts last week, offers this week at 18½c spot are heard. Demand steady. Powdered 21c@23cbbls.

Arnica Flowers—Continue weak and under pressure of new offers on spot. Price unchanged at 12clb spot bales.

Asafetida—Soft and quiet on spot. Whole lump cases dull and easy at 32c@35clb. Powdered 59c@63c as to seller and quantity.

Balsams—Peru is the most active. After selling inside last week at $2.25, offers again from importers are heard at $2.10lb spot. Oregon very scarce. Little lots available $1.75 and $2.00 gal.

Buchu Leaves—Few developments noted this week. Nothing definite from Cape Town on shipment except reported 82c c.i.f. price. Spot firm with small lots moving at $1.10@$1.15lb as to seller. Less bales $1.15@$1.20.

Cannabis—U.S.P. spot goods still in dispute as to price. Lot offered at $1.00 for assayed and 75c for unassayed. Other sellers firm and unchanged at $2.00 for U.S.P., claiming cost does not warrant any price under this. True indica very dull and in small demand at $5.75.

Cantharides—Russian easy and dull at $2.00lb for whole cases and $2.25 for powder. Chinese firm at $1.10 and $1.30.

Caraway Seed—Spot seed is easier at 29clb on larger offerings of recent imports and lessened demand. Reports of shipment figures of 30c c.i.f. from Holland are still heard.

Cardamom Seed—Decorticated unchanged at 70c@72clb spot. Green grinding at 75clb. Both very strong. Shipment former at 65c c.i.f.

Cascara Sagrada—Spot stocks of 1922 peel are much smaller and demand is good. Prices tend to firmer levels, 13½c@14clb spot bales now being inside, the latter for moderate quantities.

Celery Seed—Prices have reacted from the 23½c level and now stand at 24c inside for spot bags with goods afloat at 23c c.i.f.

Chamomile Flowers—Hungarians soft and quiet with prices unchanged at 18c ranging up to 20c as to seller and quality. Romans at $1.25@$1.30lb spot which is slightly under last week's best price.

Cloves—Spot prices are a cent higher this week at 24clb spot Zanzibar cloves in bales. Feb.-Mar. shipment is 23c and 23½c. Strong and tending upward according to the local trade.

Coriander Seed—Spot Morocco natural 12c@13c as to quality. Bleached 15c. Bombay spot offered now 11clb.

Cubeb Berries—Buying of one or two large lots has reduced spot stocks and position is firmer although 82½c@85clb is still named for XX in bags.

Cumin Seed—New goods if and when released at 30c lb. available.

Culvers Root—Still scarce at 70clb whole root spot. Powdered and cut 65c.

Dandelion Root—Very firm and tending upward. Spot as to seller at 12c@14clb. Cost to import about 14c.

Ergot—Spanish for shipment 45c c.i.f. Russian at 40c c.i.f. Spot firmer at 60c@62clb bags. More interest shown by buyers.

Fennel Seed—French spot at 17c@17½clb as to seller. German offered at 28c, but high price is apparently little inducement to buy.

Fenugreek Seed—Much firmer and in smaller supply at 7¾c@8clb spot.

Gentian Root—Firmer and apparently inside on spot now at 9clb for whole root.

Ginger—African higher at 12c spot. Cochin lemon

and A.B.C. now inside at 13c here. Jamaica new crop grinding 27c up. Old crop at 33c to 40c as to quality.

Henna Leaves—Reported cheap lots on the spot market. Regular crude drug importers holding at 19c@21clb bales as to seller and quantity. Tending easier.

Insect Powder—Has quieted down somewhat, but holds very strong at 70clb spot for pure powder.

Jalap Root—Whole U.S.P. at 34c spot. Powdered 35c@36clb bbls.

Japan Wax—Slightly firmer here at 15clb inside spot cases.

Lycopodium—Continues soft, but in steady demand at 45c up to 50clb as to seller and quantity.

Malva Flowers—Black cut further to 65clb for spot goods.

Rhubarb—Dull and easier on competition at 42c@43clb spot cases whole. Powdered unchanged at 50c@52c.

Sassafras Bark—Strong and higher. Many qualities on spot from 22c up to 30clb, all called selected.

Tragacanth—No. 1 white ribbons easier here at $1.75 lb. spot cases.

Uva Ursi—Firmer and in better demand at 5½c@6clb.

Crude Drug Notes

A meeting of the Drug & Chemical Square Club was held on Tuesday evening at 41 E. 42nd st., New York. A number of new candidates from the chemical and drug trades were initiated. Thomas R. Freebody, re-elected president for 1923, presided.

I. L. Lyons and Co., Ltd., wholesale drug house of New Orleans, held its fourth annual sales convention recently. Delegates to the convention were welcomed by J. W. Phillips, vice-president and addressed by L. E. Lyons secretary, I. L. Lyons, Jr., and B. R. Holmes, credit manager.

The annual dinner of the Calvert Drug Co., a co-operative buying corporation, of which a large number of the Baltimore druggists are members, took place on the evening of Jan. 18 at the Emerson Hotel. President and General Manager R. E. Lee Williamson acted as toastmaster.

Albert H. Smith has been elected president of Gilman Bros., Boston wholesale drug house. He has been acting as president since the death of the former president, John A. Gilmore. Chas. H. Tambling, was elected vice-president and treasurer; C. E. Hope, second vice-president, and E. F. Glavin, clerk.

Trade in platinum showed improvement during the year just closed when imports increased considerably. Imports of unmanufactured platinum amounted to 72,140 ounces, nearly 11,000 ounces more than during the whole of 1921. It was estimated that 200,000 ounces were available for consumption in 1922, according to James W. Hill of the Geological Survey. More than half of the imports came from the Republic of Colombia, and some from Russia through England. Prices ranged from $87.50 to $90 an ounce throughout most of the year, but advanced to $108 in the fall and to $118 toward the close of the year.

JAVA'S EXPORTS OF QUININE DECLINE BUT BARK SHIPMENTS ARE INCREASING

Holland Gets the Bulk of Cinchona Exports—Great Britain Gets Largest Share of Quinine—Bandoeng Quinine Works Forced to Reduce Output Owing to Business Depression.

(*Special Correspondence to* DRUG & CHEMICAL MARKETS)

The Hague, Holland, Jan. 12.—Shipments of quinine salts from Java for ten months of 1922 show a material decrease as compared with those for the corresponding period of the two previous years. In 1921 the Bandoeng Quinine Works (the only quinine factory of Java) was still able to dispose of its products without any difficulty and at high prices, but the trade changed considerably from the beginning of 1921, the general depression being also increasingly felt, so that much less could be exported, and the plant had to cut down its capacity. The following table shows the quinine trade with leading countries:

Countries:	Ten Months 1920 kilos	1921 kilos	1922 kilos
Holland	15,564	145,514	10,999
United States	27,406	9,532	....
Great Britain	80,589	12,683	1,082
Italy	15,961	37,440	30,057
Greece	12,890	12,545	6,082
Egypt	37,167	8,258	300
British India	19,248	28,739	24,929
Hongkong	2,543	1,565	1,143
China	8,102	596	6,092
Japan	14,960	459	10,391
Other destinations	19,023	4,374	8,774
Totals	253,453	261,655	99,859

Exports of cinchona bark, on the other hand, were active during the past year. In 1921 shipments totalled 4,601,000 kilos, against 4,526,000 in 1920, but during ten months of 1922 5,593,000 kilos were exported. As in previous years, Holland was the principal country of destination. whereas smaller quantities found their way to Great Britain, British India and Japan, as shown in the following table:

Countries:	Ten Months 1920 kilos	1921 kilos	1922 kilos
Holland	2,745,000	2,875,000	4,257,000
Great Britain	504,000	518,000	234,000
British India	....	340,000	447,000
Japan	441,000	580,000	653,000
Other destinations	21,000	17,000	2,000
Totals	3,711,000	4,330,000	5,593,000

The domestic production of bauxite in 1922 was at least twice as large as in 1921 and may reach a total of 300,000 long tons, according to James M. Hill, of the United States Geological Survey. During the first six months of 1922 the imports of bauxite averaged about 1,500 long tons per month, but since June they have been more than 3,000 tons a month. Domestic operations in Arkansas and eastern fields were larger, though car shortage in the fall limited to some extent the production in Arkansas.

G. N. Lewis, dean of the College of Chemistry, and J. H. Hildebrand, professor of chemistry, University of California, received the Distinguished Service Medal from the United States War Department at San Francisco Presidio, Jan. 12. Prof. Lewis was Lieut.-Col. in the Chemical Warfare Service. Prof. Hildebrand was also a Lieut.-Col. in the Chemical Warfare Service, and was commandant of the Chemical War Service Experimental Field of the A. E. F.

Approximately 20,000,000 brass vanity cases, for face powders, rouge and other cosmetics, were manufactured in the United States last year. Only half that number were distributed in 1921.

The Essential Oil Market

Current Spot Quotations of Essential Oils, page 245; Aromatic Chemicals, page 246

CITRONELLA & CLOVES ATTRACT BUYERS

Center of Interest in Quiet Market—Citronella Higher—Resale Cloves Only to be Had—Sandalwood Firmer—Lemon and Bergamot Weak—Technical Anise Easier—Sharp Break in Menthol

PRICE CHANGES IN NEW YORK
(Stocks in First Hands)

Advanced

Oil Citronella, Ceylon, 1c lb. Oil Sandalwood, U.S.P., 10c lb.
Oil Lemongrass, 5c lb. Methyl Salicylate, Resale, 5c lb

Declined

Oil Anise, Tech., 2c lb. Oil Limes, Dist., 2c lb. Menthol, 75c lb.

Trend of the Market

		Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Oil Bergamot	lb.	$2.75	$2.75	$3.00	$5.00	$7.00	$5.00
Oil Citronella, Ceylon		.60	.59	.55	.42	.92	.60
Oil Cloves		2.00	2.00	2.25	2.25	3.70	1.40
Oil Lemon		.65	.65	.70	.65	1.70	2.00
Oil Peppermint, Nat.		2.90	2.90	3.00	1.70	9.00	2.25
Oil Sandalwood, E. I.		7.10	7.00	7.00	7.25	13.00	5.25
Oil Sassafras, Artif.		.42	.42	.42	.50	1.00	.26
Benzaldehyde, U.S.P.		1.40	1.40	1.40	1.25	5.15	1.50
Coumarin		4.00	4.00	4.00	3.75	31.00	3.10
Methyl Salicylate, Cans		.62	.62	.57	.40	1.00	.90
Vanillin		.45	.45	.45	.55	.95	.29
Average		2.08	2.08	2.10	2.18	6.83	2.05

While generally quiet conditions are reported in the essential oil business, one or two houses indicate that the past week has brought to them a material increase in orders. Actual changes have been confined to a few leading items, the list as a whole remaining more or less dormant. Price movements are mixed, some items continuing to display weakness while others mark time with values unchanged. Oils of cloves and citronella have played the leading roles during the week with both working toward higher prices and displaying notable activity. Peppermint has become very quiet with the country position not quite so strong. Bergamot, lemon and orange oils are still very weak. Anise is easier. Sandalwood is climbing and is in a very strong position.

Essential Oils

Oil Anise—Larger offers of technical on spot have brought out a 48c price as against 50c last week. U.S.P. lead free goods still held at 55c inside, however. Demand slow.

Oil Bergamot—Imports of 280 cases last week, coming to a market already very weak and sagging, did not help matters on spot. Prices are still named at $2.75@$3.00 lb, for standard brands, but weak at that level. Demand is very slow.

Oil Camphor—Dull and quiet. Imports last week of about 100 drums at New York. Prices unchanged at 14½c@15c lb. for spot white in drums or cases.

Oil Caraway—Not quite so strong. Demand has been confined to small lots for some time. Spot U.S.P. at $6.00@$6.25 lb. A thousand bags of seed in at New York last week from Rotterdam.

Oil Cassia—U.S.P. cassia maintains a strong position unchanged on spot. Holders ask $2.10@$2.15 lb. and sales are being made at these figures daily. Imports last week at New York 100 cases of technical from Hongkong.

Oil Citronella—Active and continues very strong. Prices continue to creep upward on spot. Sales of drums reported at 60c lb. with holders asking 61c in some instances and up to 62c lb. for cases. Shippers are still very bullish and moving up prices at every opportunity. Cables late last week and early this week named from 62c up to 65c c.i.f. for Ceylon for Jan.-Feb. shipment. Citronella seems to have reached this level a little too rapidly and a reaction during the next month would not be surprising. Shippers have been riding the market hard for six weeks or so, and have been successful in driving up prices. A factor here, however, who is not short, stated early this week that the price was very likely to break in the near future. Java oil also strong on spot at 85c. Said to be scarce in first hands.

Oil Cloves—Looks to higher prices judging by spice position. Spot goods at 23c last week have become 24c. London persistently trying to buy back clove contracts from America. Spot oil is all in hands of resellers as distillers are contracted to limit. If one is a regular old customer, it was reported, $1.90 might be done on spot, although definite instances where $2.15 was paid late last week are known. Distillers stopped selling futures this week owing to their inability to handle further business for some time. Small lots are commanding up to $2.25 here.

Oil Eucalyptus—Consumers buying steadily and prices on U.S.P. oil are firm at 42½c@45clb., for spot drums or cases.

Oil Geranium—Good quality Bourbon oil selling freely on spot at $5.50lb. Ranges to $6.00 as to quality. Shipment market has developed little of interest since its decline of a week ago. Turkish is held nominally at $4.50. African oil commanding $8.50.

Oil Hemlock—Spot stocks are still small and only limited offerings are heard from the country. Spot holders asking $1.45lb.

Oil Lemon—Has long been a weak spot in the market and shows no signs of improving in the near future. Imports at New York last week totaled 450 cases. Shippers seem unable to hold their end up and large amount of material in this market continues to exert a depressing effect. Can be had at 65c@70clb. in a large way, ranging to 70c@80c for smaller lots as to brand.

Oil Lemongrass—Firmer position abroad reflected in slight advance in spot prices. Now quoted at 80c @85c.

Oil Limes—Distilled oil available under previous level at 48c@50clb. Expressed material continues at $1.65@$1.75lb. Market rather quiet.

Oil Mustard—Has jumped to $3.00@$3.25lb. in sympathy with reduction in spot stocks. Both domestic and imported goods are named at those figures, with little to be had in any quarter.

Oil Orange—Quiet and uninteresting. Italian sweet oil offered at $2.40@$2.50 and West Indian at $2.20@$2.35. Sicilian market continues soft. American product unchanged at $2.65@$2.70. Imports from Messina last week totaled 171 cases.

Oil Peppermint—Virtually at a standstill. City sellers have kept out of country market and consumers have practically withdrawn. Price is $2.90@$3.00 for natural

and $3.15@$3.25 for redistilled on spot. Predictions for lower prices.

Oil Rosemary—In active demand. Prices firmer in all directions. U.S.P. oil in drums at 42½c. Tins 45c@ 48c. Technical goods quoted at 40c@45c in drums or tins.

Oil Sandalwood—Has advanced to $7.10@$7.25 spot. Firmness abroad. Material in this market is in strong hands.

Oil Wormseed—Can be had at $3.85@$4.00. Spot stocks continue limited and are closely held. Country market comparatively quiet.

Aromatic Chemicals

Eucalyptol—Strong and in steady demand at 80c lb. spot U.S.P. in cans.

Menthol—Sharp break in price on spot late last week. Spot lots sold down to $8.20 in a limited way, and sales of round quantities at $8.00 were reported. Buying has been limited. Shipment heard at $7.50 c.i.f. with little interest at present.

Methyl Salicylate—Resellers have advanced their prices to 55c lb. inside for cans on spot as against 50c last week. Makers ask 60c for drums and 62c for cases.

Terpineol—Very strong at current prices. Drums from makers 50c, cans 55c up as to quallty. Imported 70c on spot.

SICILIAN LEMON OIL LOWER

(*Special Correspondence to* DRUG & CHEMICAL MARKETS)

Catania, Sicily, Jan. 14.—Little business was possible in essential oils in December owing to fluctuations in foreign exchange, and to the holidays. The following table shows the price changes:

	Lire	Lire	Lire
Lemon juice	6.25	5.75-6.25	5.75-6.25
Sweet orange	22.50	19.00	22.50
Bitter orange	23.00	20.00	21.00
Mandarine	40-45	40-45	40-45
Bergamot oil	40	35	37

The price of lemon juice (old product) declined from lire 6.50 to lire 5.75, and the product of the new harvest from lire 7.00 to lire 6.25, then remaining unchanged until the end of the month.

Exports of perfumery, cosmetics and other toilet preparations for the eleven months, January-November, 1922, rose in value from $4,326,285 in 1921 to $5,733,823. During the eleven months of 1922 there were exported 3,616,338 pounds of dentifrices valued at $2,169,625, 1,883,559 pounds of creams, rouges and other cosmetics valued at $869,736, and 3,412,286 pounds of talcum and other toilet powders valued at $1,294,790.

The 1923 Year Book and Diary published by the "Perfumery and Essential Oil Record," of London, has been issued and contains much valuable statistical data, crop information, application, analyses, and other material on essential oils.

The Perfumery, Soap and Allied Industries of New York will hold a special meeting at Murray's, 42nd st., west of Seventh ave., on Friday, Jan. 26. William H. Green will preside. Dinner will be served at 6:45.

Julian W. Lyon, president of Julian W. Lyon & Co., New York, has sailed on a two months trip to England, France and Holland.

EFFECT OF EXCHANGE ON ITALIAN OILS

Milan, Jan. 12.—The decline in essential oils on the Milan market during December is shown in the following table:

	Dec. 7 Lire	Dec. 15 Lire	Dec. 29 Lire
Sweet orange	97.50-102.50	89- 93	85.00- 90.00
Bitter orange	99.00-100.00	86- 91	82.50- 87.50
Bergamot oil	150.00-155.00	142-146	132.50-137.50
Lemon juice	27.00- 30.00	27- 30	26.00- 29.00
Mandarine	185.00-190.00	190-200	185.00-195.00

The changes were brought by fluctuations in the value of the lira, that brought the United States dollar from lire 19.20 to lire 18.80, and then to lire 19.90; and the English pound sterling from lire 90 to lire 88, and then to lire 92.50. The prices of other essential oils remained firm.

THE RIGHT SORT OF SALESMAN

Twelve characteristics of the "Right Sort of Salesman" which recently were written for "Publishers' Weekly" by Alfred J LaBelle, are just as applicable to the chemical and drug salesman of today as to the seller of any other product. The rules for the "right sort" follow: The right sort of salesman is one who takes an interest in customers and treats them as they themselves would like to be treated if they were purchasing in another store.

2. Who will handle customers so that they feel satisfied with the goods they purchase and the service they receive.
3. Who will study each customer with a view to additional sales then, or at some future time.
4. Whose work is founded on knowledge of the goods sold.
5. Who gives satisfactory service so that the customer returns. Returning customers are necessary to a successful business. One can begin with a single customer and build a business founded on service.
6. Who believes in brains rather than standardization—you cannot standardize to meet every requirement. There is the same difference as between learning by rote and learning so that you know the meaning. Standardization fits you for one business. Brains fit you for any business.
7. Who enters wholeheartedly into co-operation with employers to represent goods so that the general business may be profitable, in fact, become real coworkers. The best type not merely works for an employer, he works with him. This can be conscientiously done, because the average bookstore's general policy provides that only meritorious books and merchandise shall be especially featured and no circular matter sent out on books not considered worth while.
8. Who realizes bad grammar is a hindrance to good salesmanship.
9. Who realizes personal appearance makes a difference.
10. Who realizes physical health makes a difference.
11. Who realizes moral character makes a difference.
12. Who realizes dignity, if not overdone, helps.

A good cooking syrup can be made from sweet corn stalks that can be put on the market and meet competition with molasses, and the average corn cannery has available material for making 30,000 to 80,000 gallons of this syrup per year, Dr. J. J. Willaman of the Minnesota Section of the American Chemical Society reported at the recent convention of the Minnesota Canners' Association in Minneapolis.

The Consuming Industries

Trade Tips for Sellers

The Kennedy Paper Co., Shelbyville, Ind., is erecting a $30,000 plant addition, in order to provide for increased output.

The Bastrop Pulp & Paper Co., Bastrop, La., plans to install additional machinery which will increase the daily output of its plant 50 tons.

The Model Tire Co., Pottstown, Pa., has broken ground for the erection of a one-story addition to its plant. George H. Starkweather heads the company.

The George C. Whitney Co., Worcester, Mass., makers of paper products, are constructing a 6-story addition to their plant. The cost is estimated at $50,000.

The Holyoke Gummed Products Co., 9 Suffolk st., South Hadley, Mass., is erecting a $40,000 one-story addition to its plant in order to increase production of gummed papers.

The General Tire & Rubber Co., East Akron, O., will place three new units in operation early next month. The present output, placed at 2,500 tires per day, will be doubled by the addition.

A new cotton mill will be erected at Bladenboro, N. C. J. L. Bridger, who is interested in the enterprise, has purchased machinery. This brings the number of local mills up to three.

A new filtration plant is being built at the Galax, Va., municipal water works. It will have a capacity of 500,000 gallons. The Carolina Engineering Co., Wilmington, N. C., has charge of construction.

Paper mills at Windsor Locks, Conn., have adopted a capacity schedule. The mills are working day and night on 8-hour shifts. The American Writing Paper Co., C. H. Dexter & Sons, and the Windsor Locks Paper Mills, Inc., are the companies affected.

The Ragan Spinning Co., capitalized at $500,000, which is building a plant at Gastonia, N. C., is the one hundred and third cotton mill to locate in Gaston County. It is expected that the mill will be producing by September of this year.

Rogersville, Tenn., was selected as a location for the Taubel-Scott-Kitzmiller Co.'s new hosiery mill, which will open in the near future. The Business Men's League, of which T. J. Price is chairman, induced the concern to build at Rogersville.

The Nekoosa-Edwards Paper Co., Port Edwards, Ontario, plans to erect a new paper mill on a local site. The concern operates mills at Port Edwards and Nekoosa. When the new plant is finished the production of the combined mills will be more than 200 tons of paper per day.

The Trenton Textile Mills, Inc., Trenton, Tenn., recently organized with capital of $125,000, will take over the Lovera Cotton Mills. Extensive improvements are under way. The officers are Sol Shatz, Kenton, president, I. F. Phillips, Trenton, manager, and Fred Owen, Milan, secretary-treasurer.

Numerous American manufacturers, who are extensive users of rubber, are considering plans whereby they can develop their own sources of supply in South America. The restrictions placed on production in the Far East by the British Government, together with the export tax, which adds $100,000,000 yearly to the cost in American markets, are prompting this action.

New Consuming Companies

Franks Chemical Co., Brooklyn, $50,000. To make soaps, etc. A. M. Rosenthal, J. M. Franks, P. M. Lah; attorneys, Davis, Siegel & Nathan, 34th st. & Broadway.

Dutchess Co., Chemical Co., Dover, Del., $600,000. To make cleaning materials. H. C. Schuckhaus, Jersey City, M. A. Kerin, New York; A. H. Wylie, Washington, D. C.; Capital Trust Co. of Delaware.

Georgia Chemical Products Co., Marietta, Ga., $5,000. Paul R. Camp, Marietta.

Ackerman Color Co., New York City, $100,000. To make paints and dyes. M. M. Willens, E. S. Goddin, S. L. Nuhaus; attorney, S. E. Harwitz, 250 5th ave.

Enterprise Chemical Co., Huntington, W. Va., $100,000. A. J. King, G. D. Miller, J. L. Wilson, Huntington.

Charex Chemical Co, Rochester, N. Y., $25,000. H. C. and H. M. Williamson; attorney, C. E. Bostwick, Rochester.

Leighton Chemical Co., Colchester, Del., $150,000. To make wood alcohol. F. Leighton, E. L. White, E. N. Cary; attorney, A. G. Paterson, Walton, Del.

City Chemical Co., 67 Van Winckle ave., Jersey City, N. J., $125,000. Max, Henry and Jerome Wolpert.

Smith & Wesson, Inc, Springfield, Mass., $2,500,000. To make chemicals, fertilizers and firearms. J. S. Eastman, Methuen, Mass.; C. A. Coolidge, Jr., Boston; A. G. Catheron, Beverly, Mass.

General Supply & Chemical Co., Trenton, N. J., $100,000. To make dyes, chemicals, etc. B. A. Leyson, H. M. Tobin, 28 Woolverton st., Trenton.

Essex Analytical Laboratories, Inc., 810 Broad st., Newark, $100,000. To make chemicals. Corporation Trust Co., 37 Wall st., New York.

Girard & Co., Inc., 288 Johnson ave., Newark, $200,000. To make chemicals and drugs. Corporation Trust Co., 37 Wall st., New York.

Albert H. Beck Co., Philadelphia, $50,000. To make glass products. R. M. Beck, 3935 N. 7th st, Philadelphia.

Raydnt Corp., Pittsburgh, $25,000. To make varnishes and polishes. Capital Trust Co. of Delaware, Dover.

L. J. Tillery Oil Co., Beaumont, Tex., $85,000. To make petroleum products. L. J. Tillery, J. D. Campbell, C. G. Hooks, Beaumont.

American Vito Food Corp., Wilmington, $500,000. Colonial Charter Co.

Advance Candy Co., New York, $30,000. C. L. and D. J. L. Josephson; attorneys, Horwitz, Rosston & Hort, 115 Broadway.

D'Heraud of Paris, New York, $20,000. To make perfumes. L. and P. Blume, M. L. Cohen; attorney, S. M. Newman, 63 Park Row

Strunk & Son, Inc., 354 Washington st., Newark, $125,000. To make candy and ice cream.

Bard & Margolies, Inc., Brooklyn, $200,000. To make candy. J. Bard, 1153 East 22nd st., Brooklyn.

Amarex Corp., New York, $20,000. To make chemical products. F. Ferranti, O. Rodinella; attorneys, Holmes, Rogers & Carpenter, 20 Broad st., New York.

Semple Manufacturing Co., Trenton, N. J., $100,000. To make inner tubes. C. H. Semple, W. B. John, J. W. Miller.

Penninsula Rubber Co., Boston, $90,000. To make rubber goods. Andrew P. and Lawrence F. Keegan, 505 West 6th st., Boston.

Joseph A. Magillo, Inc., New York, $10,000. To make chemical specialties. J. A. Magillo, S. S. Beimstein; attorney, J. A. O'Rourke, 299 Broadway.

California Products Co., Houston, Tex., $25,000. To make extracts, etc. G. A. MacFarland, A. D. Baker, O. E. Gilleland, Houston.

Sanford Mfg. Co., 846 West Congress st., Chicago, $250,000. To make inks, paste, sealing wax, and kindred specialties. W. K. Ottis, R. P. Kelley, W. C. Boyden, Jr.

Smith-Alsop South Bend Paint Co., South Bend, Ind., $25,000. To make paints, varnishes, etc. E. A. White, G. W. Frederick, F. E. Dix. South Bend.

Keystone Carbon Co., Huntington. W. Va., $2,000,000. To make carbon and oil products. T. W. Scott, H. Blaidell, H. T. Lovett, Huntington.

The Foreign Markets

Imports of Drugs and Chemicals, page 247

FOREIGN EXCHANGE	Par	Current
Great Britain (pound sterling)	$4.886	$4.662
France (franc)	.193	.066
Italy (lira)	.193	.048
Germany (mark) per hundred	23.80	.035
Czechoslovakia (crown) per hundred	20.30	2.800
Poland (mark) per hundred	23.80	.003
Japan (yen)	.499	.486
Spain (peseta)	.193	.156
Holland (guilder)	.402	.395
Belgium (franc)	.193	.060
Switzerland (franc)	.193	.187
Sweden (crown)	.268	.269
Denmark (crown)	.268	.193
Argentina (peso)	.424	.373
Brazil (milreis)	.279	.115
China (Silver dollar—Hongkong)	.789	.533
(Tael—Shanghai, silver)	1.082	.731
(Tael—Peking, silver)	1.156	.770

HELIUM AT 10 CENTS PER FOOT

Liquefaction of helium, obtained from the natural gases of Canada, has been accomplished in the laboratory of Toronto University by Professor John C. McLennan. The feat, it is declared, has never been performed outside of Holland where helium was liquefied for the first time in 1908 by Professor Kammerlingh Onnes. The Canadian experiments show that helium can be produced at less than 10 cents per cubic foot, whereas the original Holland experiments cost $1,500 per cubic foot. Helium is obtained now in large quantities from natural gases and petroleum refineries. It is non-inflammable and non-explosive, and possesses 92 per cent of the lifting power of hydrogen, making it suitable for filling air ship envelopes.

WHERE VENICE TURPENTINE IS MADE

Venice turpentine is produced in the Province of Venetia Tridentine, formerly Austrian Tyrol territory, in the northern part of Italy. In this region the species of the pine known as larch is found in abundance on the slopes of the Appenines, and the distillation of turpentine from the wood of this tree forms an important industry, according to Vice Consul Deming, of Venice, Italy. Venice or Tyrol larch turpentine is sold by weight; No. 5 grade brings wholesale about 15 cents a pound. A list of producers of Venice turpentine may be had upon application to the district and co-operative offices of the Bureau of Foreign and Domestic Commerce or to the Chemical Division of the Bureau at Washington; refer to file No. 76910.

HOW ARGOLS ARE PRECIPITATED

It is estimated that southern France and North Africa produce on an average 10,000 tons of argols per annum, writes Consul Frost, of Marseilles. Argols are the crystals which form on the sides of wine casks, the precipitation being about 1 millimeter (less than four one-hundredths of an inch) per annum. These crystals contain 75 per cent of cream of tartar. Sometimes the scraping of the casks is deferred until two or three years' precipitation has accumulated. The higher the alcoholic content of wine the lower is the precipitation of argols. so that the ordinary red wines with 9 degrees of alcohol give more tartar than the high-grade wines with 12 to 20 degrees of alcohol.

SALICYLATES HIGHER IN LONDON

Advance Announced in Oil of Cloves—Firmer Prices for Prussiate of Soda, Shellac, Orange and Lemon Oils and Potassium Permanganate—Japanese Mint Oil, Thymol, Menthol and Oxalic Acid Are Lower

(*Special Cable to* DRUG & CHEMICAL MARKETS)

London, Jan. 24.—Trading in drugs and chemicals has been quiet during the week, with few price changes. Oil of cloves has been advanced. The salicylates are higher.

Prices are firmer for prussiate of soda, shellac, orange oil and potassium permanganate.

Lower prices are announced on oxalic acid, Japanese mint oil, thymol and menthol.

London, Jan. 13 (By Mail)—Stock-taking is the order of the day and so soon as more attention is paid to products required for replenishment there will be an increased demand. Quotations are practically at a standstill. The next Drug Auctions on Jan. 25 may bring out some features of interest. Large arrivals from Japan and China are reported, but there is no market in these lines.

Opium from Smyrna is lower, although stocks are reduced, but manufacturers of morphine have advanced their quotations for salts by 3d per oz., muriate powder being quoted at 8s 9d per oz. Definite orders would be accepted at 2d to 3d per oz less. Codeine is unchanged at 14s for pure and 10s 6d for salts.

Hexamine is firmer at 3s per lb.

Benzoic acid has been a bone of contention between manufacturers and the Board of Trade. Home producers were induced to go into the manufacture of benzoate of soda on the promise of Government support by allowing the acid to come in free and unrestricted as raw material. The position has been lately reversed by an import duty, or withdrawal of licenses for benzoic acid, and the free import allowed for the benzoate of soda. Both products are only nominal at 1s 10d to 2s per lb.

Strychnine has been reduced by makers owing to the lower value of nux vomica. Prices are: Pure Cryst B.P. 4s 4d per oz; powder 4s 3d per oz; hydrochlorate 3s 7d per oz.

Salicylates are firm; soda salicylate 1s 10d per lb; crystals 2s per lb; acid 1s 4d per lb.

It is reported that there is every probability of a metallurgical plant being established in Istria, Italy, where large bauxite deposits occur. A comprehensive report on the deposits giving analyses of the ores has been made by Consul Haven of Trieste, Italy, and will be sent to interested American firms upon application to the Iron and Steel Division, Bureau of Foreign and Domestic Commerce, Washington.

The North Atlantic Salt and Chemical Co., Ltd., has been incorporated in Canada with $499,000 capital and head office at Moncton, N. B., for the development of salt, lime, limestone and gypsum in New Brunswick. The incorporators are Matthew Cabot Lodge and Ivan C. Rand, of Moncton, and George J. Ross, of Sydney, N. S.

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

CLASSIFICATION—Prices quoted herein are listed in the following groups: **Chemicals,** including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; **Crude Drugs, Essential Oils,** including oleoresins; **Fatty Oils,** including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts,** including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

Packages—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

QUOTATIONS—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stock of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted herein are for goods spot New York or Metropolitan District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

WEIGHTS AND MEASURES—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)—1.20 American Gallons
1 American Gallon — .833 Imperial Gallon
1 American Gallon —3.79 Liters
1 Liter — .264 American Gallon
1 American Gallon (Water—8.35 Pounds
1 Pound (Avoirdupois) —. 454 Kilograms
1 Kilogram —2.20 Pounds

Chemicals

ACETANILID, tech. 150 lb bbls.	lb	.27	.28
100 lb kgs.	lb	.28	.30
USP 200 lb bbls.	lb	.35	.38
Second Hands	lb	.34	.35
Acetic Anhydride, 85% 480 lb drs.	lb	...	.36
85%, 107 lb cbys.	lb	...	.37
90% cbys.	lb	...	.38½
Acetone, CP 700 lb drs. c/l wks.	lb	...	.21
700 lb drs. lc/l wks.	lb	...	.21½
350 lb drs. lc/l wks.	lb	...	.21½
Second Hands, spot	lb	...	.21
Acetone Oils, light, bbls.	gal	.85	.88
Heavy, bbls.	gal	.90	.93
Acetophenone, CP 1 lb bot.	lb	4.00	4.25
Acetphenetidin, 150 lb bbls.	lb	1.85	1.95
Acetyl Chloride, 100 lb cbys.	lb	.35	.36
ACID, 1, 2, 4, 250 lb bbls.	lb	...	.80
Acetic, 28%, 400 lb bbls. c/l wks.	100 lb	...	3.17½
28%, lc/l wks.	100 lb	...	3.42½
56%, c/l wks.	100 lb	...	6.35
56%, lc/l wks.	100 lb	...	6.60
70%, bbls, c/l wks.	100 lb	...	7.94
70%, lc/l wks.	100 lb	...	8.19
80% coml. bbls. c/l wks.	100 lb	...	9.08
80% coml. lc/l wks.	100 lb	...	9.33
80% pure bbls. c/l wks.	100 lb	...	10.30
80%, pure lc/l wks.	100 lb	10.55	10.85
Glacial, bbls. c/l wks.	100 lb	...	12.05
Glacial, lc/l wks.	100 lb	...	12.30
Glacial, USP cby wks.	100 lb	...	12.80
Acetylsalicylic, 220 lb bbls.	lb	...	1.05
Second Hands	lb	.90	.95
Anthranilic, ton lots drs.	lb	...	1.10
95-98%, 100 lb drs.	lb	...	1.15
99-100%, 100 lb drs.	lb	...	1.30
Benzoic, tech. 100 lb bbls.	lb	...	.65
Tech. ton lots bbls.	lb	...	.60
USP, 100 lb bbls.	lb	.72	.77
Boric, crys. powd. 250 lb bbls.	lb	.11½	.12
Kegs, 100 lb	lb	.12	.12½
Broenner's, 250 lb bbls.	lb	...	1.55
Butyric, 60% pure 5 lb bot.	lb	.50	.60
Camphoric, USP VIII 1 lb bot.	lb	5.50	5.60
Carbolic, USP crys. see also Phenol			
110 lb tins	lb	...	.37
25 lb tins	lb	...	.39
5 lb tins or bot.	lb	.41	.42
1 lb bot.	lb	...	.46
Liquid, USP 1 lb bot.	lb	...	.45
ACID, Carbolic—(Continued)			
Crude, 25% 50 gal bbls.	gal	.27	.30
10%, 50 gal. bbls.	gal	.22	.25
Chloracetic,			
mono 100 lb bbls. wks.	lb	...	.30
Di, 150 lb cbys wks.	lb	...	1.00
Tri, 425 lb bbls. wks.	lb	...	2.45
Chlorosulfonic, 1500 lb drs. wks.	lb	.15	.16
Chromic, USP 200 lb drums.	lb	...	.40
85% Pure, 200 lb drums.	lb	...	.35
Chromotropic, 300 lb bbls.	lb	...	1.25
Chrysophanic, see Chrysarobin			
Cinnamic, 5 lb cans	lb	2.75	3.00
CITRIC, USP cryst 230 lb bbls.	lb	...	.50
Powd., USP 200 lb bbls.	lb	...	.51
Imported, cryst. 112 lb kegs.	lb	.48½	.49
Single kegs	lb	...	.49½
Cleves, 250 lb bbls.	lb	...	1.25
Cresylic, 95% dark dr. resale.	gal	...	...
97-99% straw, drs. wks.	gal	...	....
97-99% straw, drs. Imp.	gal	...	1.25
97-99% decolor. drs, wks.	gal	...	...
Diethylbarbituric, 10 lb lots, 1 lb bot.	lb	8.50	10.50
Formic, 75% tech. 100 lb cbys.	lb	.16	.18
90%, 75 lb cbys. incl.	lb	.16	.18
Gallic, USP 150 lb bbls.	lb	.70	.75
Gamma, 225 lb bbls, wks.	lb	...	1.85
Bbls., ton lots wks.	lb	...	1.75
Glycerophosphoric, 25% 1 lb b.	lb	1.65	1.70
H. 350 lb bbls. single	lb	...	.80
Bbls. ton lots wks.	lb	...	.75
Hydriodic, 10% USP 5 lb bot.	lb	.65	.70
Hydrobromic, 48% coml. 155 lb cbys. wks.	lb	.35	.40
48% coml. 10 cbys. wks.	lb	...	.40
40% USP 155 lb cbys. wks.	lb	.45	.46
10%, USP 100 lb cbys. wks.	lb	.11	.12
Hydrochloric, see also Acid Muriatic			
CP, USP, 110 lb cbys.	lb	.08	.09
HYDROFLUORIC, 30% 400 lb bbls. wks.	lb	...	.07
30% bbls. c/l wks.	lb	...	.06
30% 100 lb cbys. wks.	lb	...	.07
48% single 100 lb cby, wks	lb	...	.11
48% 10 cbys. wks.	lb	...	.10
52% 100 lb cby. wks.	lb	...	.12
52% 10 cbys. wks.	lb	...	.11
Acid, hydrofluoric—(continued)			
60% 100 lb cby. wks.	lb	...	.14
60% 300 lb dr., wks.	lb	...	.13
White Acid, 100 lb cby. wks.	lb	...	.36
White Acid, 10 cbys. wks.	lb	...	.35
Hydrofluosilicic, 35% 450 lb bbls. wks.	lb	.10	.12
Hypophosphorous, USP 30% 5 gal. demis	lb	...	.95
USP, 10% 5 gal. demis.	lb	...	.35
LACTIC, 22% dark 500 lb bbls.	lb	.04½	.05
22% light, bbls.	lb	.05½	.06
44% dark, bbls.	lb	.09¾	.10
44% light, bbls.	lb	.10½	.12
66% bbls.	lb	...	.16
80% imported, bbls.	lb	.14½	.15
USP IX 100 lb cbys.	lb	.60	.70
USP VIII 100 lb cbys.	lb	...	.55
Laurent's, 250 lb bbls.	lb	.80	.85
Metanilic, 250 lb bbls.	lb	...	1.00
Mixed, sulfuric-nitric			
Drums, wks.	N Unit	.07%	.08
Drums, wks.	8 Unit	.01	.01¼
Tank cars, wks.	N Unit	.07½	.08
Tank cars wks.	8 Unit	.009	.01
Molybdic, 85% pure 1 lb bot.	lb	1.75	1.85
85% pure, 100 lb kegs.	lb	...	1.30
Monosulfonic F, Delta. 50 lb tins	lb	...	2.30
MURIATIC, 20° cbys. lc/l wks.	100 lb	1.25	1.50
Cbys. c/l wks.	100 lb	1.10	1.50
Tank cars, wks.	100 lb	1.00	1.10
18°, 140 lb cbys. c/l wks.	100 lb	1.00	1.10
Tank cars, wks.	100 lb	.90	1.00
22°, 140 lb cbys. c/l wks.	100 lb	1.75	2.00
Iron, free, 20° cbys. c/l wks	100 lb	...	1.35
Tank cars, wks.	net ton	20.00	25.00
Muriatic, CP & USP, see Acid Hydrochloric			
Naphthionic, tech. 250 lb bbls.	lb	.60	.62
Refined, single bbls.	lb	...	.65
Nevile & Winther's, 250 lb bbls.	lb	1.15	1.20

Chemicals

ACID, NITRIC, 36° 135 lb			
cby. wks. .....100 lb	4.75	:	5.00
Cbys. c/l wks.....100 lb	4.50	:	4.75
38° single cbys. wks...100 lb	5.50	:	5.75
Cbys., c/l wks.....100 lb	5.25	:	5.50
42° Single cbys. wks...100 lb	6.00	:	6.50
Cbys., c/l wks.....100 lb	5.75	:	6.00
44° Single cbys. wks...100 lb	6.75	:	7.50
Cbys. c/l wks.....100 lb	6.50	:	7.00
C. P. cbys. single wks..100 lb	...	:	13.00
Oxalic, 325 lb bbls. wks.....lb	.13	:	.13½
Bbls., NY .....lb	.13¼	:	.13½
Kegs. 100 lb .....lb	.13½	:	.14
Imp., 560 lb csks.....lb	.13¼	:	.13½
Phenylacetic, 1 lb bot.....lb	**2.50**	:	**3.00**
Phosphoric, 50% tech. 100 lb cbys. .....lb	**.08**	:	**.09**
USP, 85% syrupy, 70 lb demis .....lb	...	:	**.16**
Phthalic, see Phthalic Anhydride			
Picramic, 300 lb bbls.....lb	...	:	**.65**
Picric, 300 lb bbls.....lb	...	:	.30
Bbls. car lots wks.....lb	...	:	.20
Pyrogallic, crys. 5 lb cans...lb	...	:	1.20
Resublimed, 5 lb cans.....lb	1.55	:	1.60
Tech. powd. 200 lb bbls...lb	...	:	.80
Salicylic, tech. 125 lb bbls...lb	...	:	.42
USP, 100 lb bbls.....lb	...	:	.45
Second Hands.....lb	.36	:	.38
Sulfanilic, 250 lb bbls.....lb	.17	:	.20
SULFURIC, 66° 175 lb cbys.			
lc/l wks. .....100 lb	1.25	:	1.50
Cbys., c/l wks.....100 lb	1.00	:	1.25
1500 lb Drums, lc/l wks. .....100 lb	...	:	**1.10**
Drums, c/l wks.....100 lb	...	:	**1.00**
Tank cars, wks.....net ton	14.00	:	16.00
60° 1500 lb Drums, lc/l wks. .....100 lb	**.70**	:	**.90**
Drums, c/l wks.....100 lb	**.60**	:	**.80**

Acid Sulfuric			
Tank cars, wks.....net ton	**9.00**	:	**11.00**
C. P. 175 lb cbys.....100 lb	.08	:	.09
Oleum, 20 p.c. 1500 lb drums, lc/l wks. .....100 lb	**1.25**	:	**1.50**
Drums, c/l wks.....100 lb	**1.10**	:	**1.25**
Tank Cars, wks....net ton	17.00	:	18.00
Contract cars, wks.....ton	17.00	:	18.00
Oleum, 40° drs lc/l wks. net ton	...	:	**35.00**
Oleum, 60° drs, lc/l wks net ton	...	:	**65.00**
Sulfurous, USP 6% 100 lb cbys. lb	**.05**	:	**.06**
4% 100 lb cbys.....lb	**.04**	:	**.05**
USP, 5 gal. demis.....lb	**.06**	:	**.08**
Tannic, tech. 300 lb bbls....lb	.40	:	.50
USP, powd. 200 lb bbls...lb	**.70**	:	**.75**
USP, fluffy, 50 lb bbls....lb	**.75**	:	**.80**
Tartaric USP cryst 300 lb bbls. lb	...	:	**.32**
USP, powd. 300 lb bbls..lb	...	:	.32
Imp. USP, 240 lb bbls....lb	.30½	:	.31
Powd. 240 lb bbls.....lb	.30½	:	.31
Tobias, 250 lb bbls.....lb	1.30	:	1.40
Tungstic, 100 lb kegs.....lb	...	:	1.00
Aconitine Alk, cryst. 1 oz. vls..oz	...	:	30.00
Amorphous, 1 oz. vls.....oz	...	:	20.00
Adeps Lanae, hydrous 350 lb bbls lb	.21	:	.22
Anhydrous, 350 lb bbls.....lb	.23	:	.24
Albumen, Egg, edible.....lb	...	:	.80
Technical, see Dyers Sundries			
ALCOHOL, USP 190 pf. 50 gal. bbls. .....gal	...	:	4.70
Second Hands, bbls. USP 190 pf. .....gal	...	:	4.60
Export, USP 190 pf.....gal	.37	:	.45
Cologne Spirit, 50 gal. bbls.gal	...	:	4.75
WOOD, see Methanol			
Alcohols, also in 50 gal. drums, extra and returnable.			
Amyl, see Oil Fusel			

ALCOHOL—(continued)			
Butyl, 50 gal. drums.....lb	**.20**	:	**.22**
Cinnamic, liquid, 1 lb bot...lb	15.00	:	16.00
Crystallizable .....lb	23.00	:	24.00
Isobutyl, crude 50 gal. drums.gal	...	:	**4.40**
Refined, 10 lb can.....lb	...	:	**.75**
Isopropyl, crude 50 gal. drs..gal	...	:	**2.25**
Refined, 50 gal. drs.....gal	4.00	:	4.50
Ref'd, 91%, drs.....gal	...	:	3.50
Methyl, see Alcohol, Wood			
Phenylethyl, see Phenylethylalcohol			
Propyl, nml. crd 50 gal. drms.gal	...	:	**4.40**
Refined, 10 lb can.....lb	...	:	**.75**
Denatured			
No. 1 Complete Denat. 188 Proof			
50 gal. bbls. incl.....gal	.45	:	.47
50 gal. drums, extra....gal	.40	:	.42
No. 1 Special Denat. 190 Proof			
50 gal. bbls. incl.....gal	.41	:	.43
50 gal. drums, extra....gal	.36	:	.38
No. 5 Complete Denat. 188 Proof			
50 gal. bbls. incl.....gal	.40	:	.42
50 gal. drums, extra....gal	.35	:	.37
No. 6 Complete Denat. 188 Proof			
50 gal. bbls. incl.....gal	.39	:	.41
50 gal. drums, extra....gal	.34	:	.36

In addition to the regular authorized formulae for completely denatured alcohol, some 75 formulae for specially denatured alcohol are authorized for special uses. Owing to the limitations of their uses however, prices are quoted by the alcohol producers only to holders of permits allowing the use of specially denatured formulae in products authorized by the Dept. of Internal Revenue. For prices on specially denatured alcohols not listed above, consult any of the alcohol producers.

Chemicals

Aloin, USP 100 lb cases	lb	.85	.90
Alpha-Naphthol, tech. 300 lb bbls.	lb	...	1.05
Ton lots, bbls. wks	lb	...	1.00
Refined, 300 lb bbls	lb	...	1.10
Alpha-Naphthylamine, 350 lb bbls.	lb	...	.29
Ton lots, bbls. wks	lb	...	.28
ALUM, Ammonia, lump 400 lb bbls. wks.	100 lb	3.50	3.65
Imp., 500 lb casks	100 lb	3.25	3.50
Ground, 400 lb bbls. wks.	100 lb	3.65	3.75
Powd., 380 lb bbls. wks.	100 lb	3.90	4.00
Chrome, 500 lb cks wks.	100 lb	5.00	6.00
Potash, lump 400 lb bbls. wks.	100 lb	...	4.50
Bbls. c/l wks.	100 lb	...	4.25
Cont. bbls c/l wks.	100 lb	...	4.25
Imp. 650 lb cases sp.	100 lb	3.00	3.25
Ground, 400 lb bbls. wks.	100 lb	4.35	4.60
Imp. 650 lb casks	100 lb	3.25	3.50
Powd., 380 lb bbls. wks.	100 lb	4.50	4.75
Chrome, 700 lb cks wks.	100 lb	5.50	6.00
Soda, grd. 400 lb bbls. wks.	100 lb	...	4.00
Bbls. c/l wks	100 lb	...	3.50
Aluminum, metal, c/l NY	100 lb	23.00	24.00
Chloride, anhyd. 275 lb drs.	lb	.20	.22
30% sol. 120 lb cbys	lb	.03½	.04
Hydrate, light 90 lb bbls.	lb	.17	.18
SULFATE, Iron-free bags c/l wks.	100 lb	2.50	2.65
Imported, spot	100 lb	2.50	2.60
Comm'l., ½% iron, bgs. c/l wks.	East 100 lb	1.45	1.50
ALUMINUM SULFATE—(Continued)			
Cont. bgs. c/l wks. E.	100 lb	...	1.40
Bags, c/l wks. W.	100 lb	...	1.35
Bbls., c/l wks. East.	100 lb	...	1.60
Bulk, c/l cont. wks. E.	100 lb	...	1.35
Amidol, (see Diaminophenol)			
Amidopyrine, 10 lb boxes	lb	4.50	4.75
1 lb cartons, 10 lb	lb	...	5.16
Aminoazobenzene, 110 lb kgs.	lb	...	1.15
AMMONIA anhyd. 100 lb cyl.	lb	...	.30
Water, 26° 800 lb drs. wks.	lb	...	.07½
Drs. c/l wks	lb	.07	.07¼
Imp., 800 lb drs incl spot.	lb	...	.06
26°, 100 lb cbys. lc/l wks.	lb	...	.09½
Cbys., c/l wks	lb	...	.09¼
20°, 800 lb drs. lc/l wks.	lb	...	.06
Cbys., lc/l wks	lb	...	.07½
18°, 800 lb drs. lc/l wks.	lb	...	.05½
Cbys., lc/l wks	lb	...	.07½
16°, 800 lb drs. lc/l wks.	lb	...	.04
Cbys., lc/l wks	lb	...	.05
Ammonium Acetate, 100 lb kegs.	lb	.35	.36
Benzoate, USP 1 lb bot	lb	.85	.90
Bifluoride, 300 lb bbls	lb	.22	.23
100 lb kegs	lb	.23	.24
Bromide, 50 lb boxes	lb	...	.33
Imported, 112 lb boxes	lb	.18	.18½
Carb., tech. 560 lb casks	lb	...	.09½
Powd., tech. 385 lb bbls.	lb	...	.10¾
USP, lump, 100 lb kegs	lb	...	.09¼
Powd., 100 lb kegs	lb	...	.10
Chloride, Domestic			
White gran. 250 lb bbls. NY.	lb	...	.08
Bbls., c/l wks	lb	...	.07¼
Gray 250 lb bbls. wks	lb	.08⅜	.08⅝
Bbls, c/l wks	lb	.08	.08¼
AMMONIUM CHLORIDE—(Continued)			
Imp., wh. 600 lb casks spot.	lb	.06½	.07
Gray, 600 lb casks spot.	lb	.07⅝	.08¼
Lump, 500 lb casks spot	lb	...	.15
Ichthyolate, as to brand	lb	.75	4.00
Iodide, USP 25 lb jars	lb	...	4.85
Lactate, 500 lb bbls	lb	.15	.16
Nitrate, tech. crys. 225 lb bbls.	lb	...	...
CP gran. 100 lb kegs	lb	.20	.21
Oxalate, pure, 100 lb kegs	lb	.50	.57
Persulfate, 112 lb cases	lb	.55	.60
Phosphate, dibasic 200 lb bbls.	lb	.54	.60
Tech., powd. 325 lb bbls.	lb	.15	.17
Salicylate, USP 100 lb kegs.	lb	.68	.70
Sulfate, bulk c/l wks.	100 lb	...	3.20
200 lb single bgs c/l wks.	100 lb	...	3.30
200 lb double bags f.a.s.	100 lb	...	3.55
Sulfocyanide, tech. 100 lb kgs.	lb	...	.50
CP, 25 lb jars	lb	.60	.65
Amyl Acetate, tech. 50 gal. drs.	gal	2.50	2.65
Pure, 5 gal. cans	gal	6.00	7.00
Alcohol, see Fusel Oil			
Butyrate, 1 lb bot	lb	2.00	2.10
Formate, 1 lb bot	lb	1.75	2.00
Salicylate, 100 lb cbys	lb	1.30	1.50
Anethol, 2 lb bot	lb	1.60	2.00
ANILINE OIL, 900 lb drs. 5dr.sp.	lb	...	.17
Aniline Salt, 200 lb bbls	lb	.24	.25
Anisic Aldehyde, 1 lb bot	lb	4.00	4.50
Anthracene, 40-45% 600 lb casks wks.	lb	.12	.17
80-85%, 600 lb casks wks.	lb	.75	1.00
Anthraquinone, subl 125 lb bbls.	lb	1.30	1.35
30% paste 350 lb bbls	lb	.75	.80
Antimony metal, slabs ton lots	100 lb	...	6.75
Needle Powd., 100 lb cases	lb	.06	.06½

Chemicals

ANTIMONY CHLORIDE, anhyd 1000 lb			
drs.	lb	...	.35
50 lb crocks	lb	.45	.48
Sol'n. 130 lb carboys	lb	.12	.13
Oxide, 500 lb bbls.	lb	.06½	.07
Salt, dom. 500 lb bbls.	lb	...	.24
Imp., c.i.f. NY	lb	.18	.19
Sulfide, golden 500 lb bbls.	lb	...	.19
336 lb kegs	lb	...	.17
Crimson, 500 lb bbls.	lb	...	.38
336 lb kegs	lb	...	.36
Red, 500 lb bbls.	lb	...	.43
336 lb kegs	lb	...	.40
Tartrolactate, 500 lb bbls.	lb	...	.45
Antipyrine, USP, 100 lb cases	lb	2.30	2.40
Apomorphine Hydchlide, ⅛ oz. vls.	oz.	...	16.65
Arecoline Hybromide, 1 oz. vial.	oz	...	12.00
Argols, red powd. 350 lb bbls.	lb	.07	.07½
Arsenic, metal 220 lb kegs	lb	.23	.24
Red, 224 lb kegs cases	lb	.13¼	.13½
White, 550 lb bbls. c/l NY	lb	.15½	.16
Aspirin, see Acid Acetylsalicylic			
Atropine Alk. USP 1 oz vial	oz	...	10.50
Sulfate, 5 oz. in 1 oz. vials	oz	...	4.50
Single ounce	oz	...	4.60
BARIUM BINOXIDE, see Barium dioxide			
Carbonate, precip. 800 lb bbls. wks.	ton	75.00	85.00
Imports, bbls. spot	ton	...	70.00
Precip., 200 lb bgs, wks.	ton	70.00	75.00
Chloride, 800 lb bbls. wks	ton	90.00	95.00
200 lb bgs. wks	ton	90.00	95.00
Import, bbls. spot	ton	92.50	95.00
Dioxide, 780 lb drs.	lb	.18	.20
Import, 500 lb drs.	lb	.14	.16
Hydrate, 500 lb bbls.	lb	.05	.06
Iodide, 5 lb bot.	lb	...	5.10
Nitrate, 700 lb casks	lb	.09¾	.10
Import, casks	lb	.07½	.08
Sulfocyanide 400 lb bbls.	lb	...	.35
Barytes, floated 350 lb bbls.	ton	33.50	35.00
Bay Rum, Porto Rican, genuine			
Denat. salicy acid or tartar emetic 45 gal. bbls.	gal	3.10	3.25
Denat. quinine sulf. 45 gal. bbls.	gal	3.40	3.50
Domestic synthetic, 50 gal. bbls.	gal	1.25	1.35
Benzaldehyde, tech. 945 lb drs. wks.	lb	.65	.70
USP, 25 lb cans	lb	1.40	1.50
FFC, 25 lb cans	lb	1.70	1.80
BENZENE, 90% 8000 gal. tanks wks.	gal	...	.27
110 gal. drs. wks.	gal.	.32	.33
CP Tanks, wks	gal	...	.30
110 gal. drs. wks.	gal	.35	.36½
Benzidine Base, dry 250 lb bbls.	lb	...	.87
10 bbl. lots	lb	...	.86
Benzidine Sulfate, paste 350 lb bbls.	lb	.70	.72
Benzol, see Benzene			
Benzonaphthol, 5 lb boxes	lb	2.00	2.10
Benzoyl Chloride, 500 lb drs.	lb	...	1.00
Benzyl Acetate, 100 lb cbys.	lb	1.40	1.50
Alcohol, 5 lb bot.	lb	1.25	1.50
Benzoate, 5 lb bot.	lb	1.90	2.00
Medicinal FFC	lb	2.10	2.20
Chloride, 95% tech. 925 lb drs.	lb	.20	.22
100 lb cbys.	lb	...	.25
Redistil. 100 lb cbys.	lb	...	.35
Formate, 1 lb bot.	lb	2.50	3.00
Berberine Hydchlide, 1 lb bot.	lb	...	22.00
Sulfate, acid or neut. 1 lb bot.	lb	...	22.00
BETA-NAPHTHOL, 350 lb bbls. wks.	lb	...	.26
Ton lots, wks.	lb	...	.24
Sublimed	lb	.55	.60
Beta-Naphthylamine, tech. 200 lb. bbls.	lb	.95	1.00
Sublimed, 200 lb bbls.	lb	...	1.50
Bichloride Mercury, see Mercury Bichloride			
BISMUTH metal, 150 lb cases	lb	2.65	2.75
Second Hands	lb	2.60	2.70
Ammon. Citrate, USP 5 lb bxs.	lb	...	5.45
Betanaphtholate, 5 lb bxs.	lb	...	3.10
Citrate, USP 5 lb bxs.	lb	...	2.75
Nitrate, 25 lb jars	lb	...	1.70
Oxychloride, 250 bbls.	lb	...	3.12
Phenolsulfonate, 5 lb cans	lb	...	2.90
Salicylate, 250 bbls.	lb	...	1.85
Subbenzoate, 5 lb boxes	lb	...	3.08
Subcarbonate, USP 250 bbls.	lb	...	3.00
X-Ray diag. 1 lb bot.	lb	...	3.35
Subgallate, USP 175 bbls.	lb	...	2.51
Subiodide. 5 lb lots	lb	...	4.43
Subnitrate, USP 250 bbls.	lb	...	2.65
Second Hands, bbls. or less	lb	2.45	2.50
Cones, 1 lb bot.	lb	...	3.65
Subsalicylate, USP 175 bbls.	lb	...	2.78
Tannate 1 lb bot.	lb	...	2.50
Bismuth Preparations quoted above on basis 25 lb lots. Smaller lots at an advance.			
Blanc Fixe, dry 400 lb bbls. wks.	ton	80.00	85.00
Imported, bbls.	ton	...	...
Paste, 650 lb bbls.	ton	...	40.00
BLEACHING POWDER, 700 lb drs. c/l wks.	100 lb	2.15	2.25
Drums lc/l ex-warehouse	100 lb	2.25	2.40
Contract, c/l wks.	100 lb	1.90	2.00
F. a. s. c/l.	100 lb	...	...
Imported, spot	100 lb	2.10	2.15
Blue Ointment, see Mercury Mass, see Mercury			
Bone Ash, 100 lb kegs	lb	...	.08
Black, 200 lb bbls.	lb	.06	.08

Chemicals

Borax, USP cryst. 400 lb bbls... lb	.05½	:	.05¾
Powdered, USP, 300 lb bbls... lb	.05¾	:	.06
Kegs, USP, 100-150 lb ..... lb	.06	:	.06½
Bordeaux Mixture, powd. bbls... lb	.13	:	.16
Paste, bbls. ..... lb	.08	:	.10
Borneol, 1 lb bot..... lb	...	:	**3.50**
Bromide, see potass. bromide, etc.			
Bromine, bot. in 60 lb cs. wks.. lb	...	:	.29
Bromobenzene, 600 lb drums.... lb	.40	:	.42
Bromoform, USP 5 lb bot 50 lb cs. lb	...	:	1.30
Bromstyrol, 25 lb kegs..... lb	4.00	:	4.25
Brucine Sulfate, 100 ozs..... oz	...	:	.20
Butter of Antimony, see Antimony Chloride			
CADMIUM, metal 100 lb bxs.... lb	1.15	:	1.25
Bromide, 50 lb cases jars.... lb	...	:	1.10
Iodide, 10 lb bot..... lb	...	:	4.20
Sulfide, cs. ..... lb	1.50	:	1.60
CAFFEINE ALK. USP 5 lb cans.. lb	3.75	:	4.25
Second Hands ..... lb	...	:	3.75
Hydrochloride, 1 lb bot..... lb	7.12	:	7.32
Sulfate, 1 lb bot..... lb	...	:	5.50
Citrated, 25 lb cans..... lb	3.00	:	3.25
Hydrobromide, 1 lb bot..... lb	...	:	4.75
CALCIUM Acetate, 150 lb bgs, c/l wks. .....100 lb	...	:	3.50
Arsenate, 100 lb bbls. c/l wks. lb	.16	:	.19
Bbls. lc/l wks..... lb	.18	:	.20
Bromide, 100 lb cs..... lb	...	:	.45
Calcium Carbide, 220 lb dr c/lwks lb	...	:	**.04½**
Drums lc/l wks..... lb	...	:	.05
Carbonate, tech. 100 lb bags c/l .....100 lb	1.00	:	1.10
USP, precip. 175 lb bbls.. lb	...	:	**.04**
Chloride, solid, 650 lb drs. c/l f o b NY.....ton	...	:	**24.50**
Gran., 350 lb drs. c/l f o b NY .....ton	...	:	**30.50**

CALCIUM CHLORIDE—(Continued)			
Flake 330 lb drs. c/l drs. fob NY .....ton	...	:	**30.50**
Imp., solid 600 lb drs. spot. ton	...	:	**20.50**
Anhyd., 350 lb drs. fob NY. lb	.12	:	.13
Glycerophosphate, 250 lb bbls.. lb	1.55	:	1.60
Hydrate, (see Lime)			
Iodide, 5 lb bot..... lb	...	:	4.20
Lactate, tech. 500 lb bbls... lb	...	:	**.13½**
Nitrate, 220 lb bbls. c/l NY. ton	...	:	**40.00**
Phosphate, precip. 350 lb bbls. lb	.10	:	.12
Phosphate, precip. tribasic 350 lb bbls ..... lb	.12	:	.13
Phosphate, mono. ..... lb	.06½	:	.07½
Sulfocarbolate, 100 lb kegs... lb	.61	:	.63
Calomel, see Mercury			
CAMPHOR, Amer. ref. 250 lb bbls. ..... lb	...	:	.96
2½ lb slabs, 100 lb cs.... lb	...	:	.97¼
1 lb cakes, 100 lb cs..... lb	...	:	.97½
1 oz. tab., 1 lb ctns. 100 lb cs. ..... lb	...	:	1.01¼
½ oz. tab., 1 lb ctns. 100 lb cs. ..... lb	...	:	1.02
Jap. ref. 2½ lb slabs, 100 lb cs. ..... lb	.86	:	.88
1 oz. tab., 100 lb cs. 1 lb tins ..... lb	...	:	1.00
½ oz. tab. 100 lb cs. 1 lb tins ..... lb	...	:	1.02
Chinese ref. 2½ lb slabs 100 lb cs. ..... lb	.86	:	.88
Crude, 100 lb cs..... lb	.70	:	.72
Camphor, Monobrom. 100 lb cs.. lb	1.90	:	1.95
Caramel, 50 gal. bbls.....gal	.57½	:	.62
Carbazol, 250 lb bbls..... lb	.75	:	.80
Carbon Bisulfide, 500 lb dr., lc/lNY lb	...	:	.06¾
c/l drums, NY..... lb	...	:	.05¾
Carbon Black, 12½ lb bags, 150-225 lb cases ..... lb	.18	:	.35

Carbon Tetrachloride, 1400 lb drs. NY ..... lb	...	:	**.10½**
Drums, c/l NY..... lb	.09	:	.09¾
700 lb drs. single NY..... lb	...	:	.10½
Carmine, No 40 5 lb boxes..... lb	4.50	:	4.60
Casein, edib. 100 lb keg..... lb	.45	:	.50
Technical, 200 lb bbls..... lb	.28	:	.30
Castoreum, 1 lb boxes..... lb	4.00	:	**4.50**
Castor Oil, USP 50 gal. bbl.... lb	...	:	.13
Cases, 80 lb 2 tins..... lb	...	:	.14
Tech., see Fixed Oils			
Caustic Potash, see potash, caustic			
Soda, see soda, caustic			
Cerium Oxalate, USP 100 lb kgs. lb	.48	:	.53
Chalk, drop 175 lb bbls..... lb	...	:	.03¼
Precip. light 175 lb bbls..... lb	.04¼	:	.04½
Precip. heavy 560 lb csks..... lb	.03½	:	.04
Bulk ..... ton	5.00	:	8.00
Precip. English, 7 lb bags.... lb	.08¼	:	.08½
Charcoal, Bone, see bone black			
Wood, powd. 100 lb bbl..... lb	.04	:	.05
Willow, powd. 100 lb bbl..... lb	.06	:	.07
China Clay, imp. .....ton	16.00	:	22.50
Domestic, fob Mine.....ton	15.00	:	17.50
Chloral Hydrate, USP 100 lb drs. lb	.75	:	.80
25 lb jars ..... lb	.76	:	.81
Chinoidin, 170 lb cases..... lb	.65	:	.75
Chlorhydrin, Ethylene anhyd, 600 lb drs. ..... lb	.75	:	.85
40% soln. 100 lb cbys..... lb	.25	:	.30
CHLORINE, Liquid 2000 lb cyl. c/l wks. ..... lb	.05¼	:	.05¾
Tank car lots wks..... lb	.05¼	:	.05¾
100 lb cyl. c/l ..... lb	...	:	.06
100 lb cyl lc/l wks..... lb	.06¼	:	.07
Chlorobenzene, mono. 1000 lb drs. wks. ..... lb	.10	:	.11
Drs. c/l wks..... lb	...	:	.09
Tank car lots wks..... lb	...	:	.08
CHLOROFORM, USP 50 lb drs.. lb	...	:	.35
Second Hands, 650 lb drs... lb	.32	:	.34
Technical, 650 lb drums..... lb	.33	:	.35

Chemicals

Chromium Acetate, 20° soln. 400 lb bbls.	lb	.08	.10
Fluoride, Powd. 400 lb bbls.	lb	...	.50
Soln. 400 lb bbls.	lb	...	...
Sulfate, 400 lb bbls.	lb	.07	.09
Chrysarobin, USP 5 lb cans	lb	2.10	2.25
Cinchonidin alk., pwd. 100 oz. tinscs		...	.70
Crystal	oz.	...	.75
Sulfate, 100 oz. tins	oz	.49½	.50
Cinchonine, alk., pwd. 100 oz. tinscs		...	.38
Crystal	oz.	...	.43
Sulfate, 100 oz. tins	oz	...	.35
Cinnamic Alcohol, see Alcohol Cinnamic			
Cinnamic Aldehyde, 1 lb bot.	lb	3.75	4.00
Citral, 25 lb cans	lb	2.80	3.25
Citrine Ointment, see Mercury			
Citronellal, 1 lb bot.	lb	2.00	2.25
Citronellol, 1 lb bot.	lb	8.00	12.00
Cobalt metal, 100 lb kegs	lb	3.00	3.25
Cobalt Oxide, 500 lb bbls.	lb	...	2.10
10 lb tins 200 lb cases	lb	...	2.35
COCAINE alk., USP, 1 oz. vial..	oz	...	11.00
Hydrochloride, USP—1 oz. vials, 25 ozs.	oz	...	7.07
In ⅛ oz. vials	oz	...	7.50
In crystals, granular, powder, or flaky crystals as desired.			
Cocoa Butter, bulk, 200 lb bales.	lb	.31	.32
Fingers, cakes, etc. 12 lb bxs.	lb	.36	.37
CODEIN alk., 5 oz. cans 10 oz lots	oz.	...	7.30
Hydrobromide, 10 ozs.	oz	...	5.85
Hydrochloride, 10 ozs.	oz	...	6.55
Nitrate, 10 ozs.	oz	...	6.55
Phosphate, 10 ozs.	oz	...	5.50
Salicylate, 10 ozs.	oz	...	5.50
Sulfate, 10 ozs.	oz	...	5.85
Small Sizes, ⅛ oz. vials, 50c extra, ¼ oz. 25c extra, singles 7c extra per oz.—25 oz. lots, 10c oz. cheaper than above. Less than 10 ozs. 15c oz. higher than above			
COD LIVER OIL, Norwegian, 30 gal. bbls.	bbl	22.50	23.50
Newfoundland, 30 gal. bbls.	bbl	...	...
Colchicine alk., USP 1 oz vial..	oz	...	30.00
Salicylate, 1 oz. vial.	oz	...	45.00
Collodion, USP 30 lb drums.	lb	.22	.23
Flexible, USP 30 lb drums.	lb	.27	.28
COPPER, metal electrolytic c/l NY	100 lb	...	14.75
Lake, c/l NY.	100 lb	14.75	15.00
Casting, c/l NY.	100 lb	14.12	14.37
Carbonate, 400 lb bbls.	lb	...	.19
Cyanide, 100 lb drs.	lb	.58	.60
Oxide, 1000 lb bbls.	lb	.15½	.16
Carlots, bbls.	lb	.15	.15¼
Sub-Acetate, verd. 440 lb bbls.	lb	.35	.37
SULFATE, crys. 450 lb bbls. lc/l spot	100 lb	6.25	6.50
Carlots, bbls, spot.	100 lb	6.00	6.25
Imp. 550 lb csks.	100 lb	5.75	5.80
Powdered, 350 lb bbls. lc/l spot	100 lb	7.50	8.00
Carlots, bbls, spot.	100 lb	7.25	7.50
Copperas, bulk c/l wks.	ton	20.00	21.00
400 lb bbls. c/l wks.	ton	...	25.00
200 lb bgs. c/l wks.	ton	...	23.00
Powdered, bbls.	100 lb	3.45	3.75
Corn Syrup, 42 deg. 50 gal. bbls.	100 lb	2.77	3.02
43 deg. 50 gal. bbls.	100 lb	2.82	3.07
Corrosive Sublimate, see Mercury Bichloride			
Cotton Soluble, 100 lb bbls. wet.	lb	.40	.42
Coumarin, 25 lb tins	lb	4.00	4.25
CREAM TARTAR, USP 300 lb bbls.	lb	...	.26½
Imp. powd. USP, 224 bbls.	lb	.23½	.24½
Creosote, USP, 42 lb cbys.	lb	.40	.45
Creosote Oil, 50 gal. drs.	gal	.20	.22
Carbonate, 1 lb bot. 25 lb	lb	1.60	1.70
Cresol. USP, 400 lb bbls.	lb	.25	.27
Cyanamide, bulk c/l wks, Amm. unit		...	3.25
DIAMINOPHENOL, 100 lb kegs.	lb	...	3.75
Dianisidine, 100 lb kegs	lb	4.50	4.75
Dichlorobenzene, 1000 lb drs.	lb	.06	.07½
Diethylaniline, 850 lb drs.	lb	.60	.65
Diethyl Phthalate, 25 lb cans.	lb	.85	.90
Diethyl Sulfate tech. 50gal.drs.	lb	.20	.25
CP drums	lb	.40	.50
Digitalin, Pure, 1 oz. vial.	oz	7.75	8.25
Dimethylaniline, 840 lb drs. wks.	lb	.40	.41
Dimethylsulfate, 110 lb drs.	lb	...	.50
Dinitrobenzene, 400 lb bbls.	lb	.19	.21
Dinitrochlorobenzene, 400 lb bbls.	lb	.19	.20
Dinitronaphthalene, 350 lb bbls.	lb	.30	.32
Dinitrophenol, 350 lb bbls.	lb	.33	.35
Dinitrotoluene, 300 lb bbls.	lb	.19	.21
Dionin, see Morphine, Ethyl			
Diphenylamine, 250 lb bbls.	lb	.50	.52
Diphenyloxide, 500 lb drums.	lb	.85	.90
Dover's Powder, USP 5 lb tins.	lb	2.20	2.30
Duboisine Sulfate, 1 oz. vial.	oz	...	60.00
EARTH, Diatomaceous, see Kieselguhr			
Emetine, alk., 15 gr. vls.	ea	...	1.65
Hydchlide, USP 1 oz. vial.	oz	...	19.00
15 gr. vials.	ea	.75	.80
EPSOM SALT, tech. 300 lb bbls. NY	100 lb	...	2.25
Bbls. c/l NY.	100 lb	...	2.10
100 lb bgs, c/l NY.	100 lb	...	1.85
Imp., 220 lb bgs. c/l NY.	100 lb	1.10	1.25
USP, 300 lb bbls. 10 bbls.	100 lb	2.75	2.80
Carlots, bbls.	100 lb	2.25	2.50
Imported, 300 lb bbls.	100 lb	2.25	2.50
Ergotin, Bonjean, 1 lb jars	lb	9.50	10.00
Eserine alk., 1 oz. vial.	oz	...	30.00
Salicylate, USP 1 oz. vial.	oz	...	25.00
Sulfate, USP VIII, 1 oz. vial.	oz	...	20.00

Chemicals

ETHER, USP 55 lb drums	lb	.13	.15
Anaesthesia, 55 lb drums	lb	...	.16
USP, 1880 55 lb drums	lb	...	.38
Washed, 55 lb drums	lb	...	.30
Motor, 1 lb cans	lb	.26	.27
Ether, Nitrous, 1 lb bot	lb	.92	.95
Ethyl Benzyl Aniline, 300 lb drs.	lb	...	1.30
Ethyl Acetate, 99% 50 gal. drs.	gal	.95	1.05
85-90% Ester, 50 gal. drs.	gal	...	.85
Carlots, drums	gal	...	.82
Tank Cars	gal	...	.70
Pure, 5 lb bot	gal	3.25	3.50
Benzoate, 5 lb bot	lb	1.85	2.00
Bromide 115 lb drs	lb	...	.40
Butyrate, 5 lb bot	lb	2.00	2.25
Methyl Ketone, 50 gal. drums	lb	.19	.20
Morphine, see Morphine, Ethyl			
Chloride, 15 lb cyl	lb	...	.50
Cinnamate, 1 lb bot	lb	5.00	5.50
Formate, 5 lb bot	lb	1.00	1.10
Valerate, 5 lb bot	lb	4.50	4.75
Ethylene Bromide, 600 lb drs	lb	...	.60
Glycol	lb	.65	1.00
Chlorhydrin, anhyd. 50 gal drs.	lb	.75	.85
40% Solution, 50 gal. bbls.	lb	.25	.30
Dichloride, 50 gal. drs	lb	.20	.25
Eucalyptol, 25 lb cans	lb	.80	.85
Eugenol, 25 lb cans	lb	3.25	3.50
Feldspar, bulk	ton	20.00	25.00
FERRIC CHLORIDE, tech. crys. 475 lb bbls	lb	...	.10
Imported	lb	...	.07
USP, crys. 100 lb kegs	lb	...	.10
Imported	lb	...	.09
Tech. Sol'n 40° 140 lb cbys.	lb	...	.06½
48°, 140 lb cbys	lb	...	.08
USP Sol'n 125 lb cbys	lb	...	.06½
Ferrous Chloride, crys. tech. 475 lb bbls	lb	.06	.06½
Ferrous Sulfide, 1000 lb bbls.	100 lb	2.50	3.00
Flake White, see lead, white			
Fluorspar, 95% 220 lb bgs. ex dock	ton	...	25.00
96% bgs.	ton	...	33.50
98% bgs.	ton	...	35.00
FORMALDEHYDE, USP 400 lb bbls. c/l wks.	lb	...	.16
Carboys, 100 lb lc/l wks	lb	...	.16½
Bbls. 400 lb lc/l wks	lb	...	.16½
Fuller's Earth, 200 lb bgs. c/l mines	ton	15.00	17.00
Imported, 230 lb bags NY	ton	35.00	40.00
Fusel Oil, refined, 100 gal drm.	gal	3.00	3.50
Crude, 100 gal drm	gal	...	2.00
G. SALT, paste 350 lb bbls. basis 100%	lb	.60	.65
Gelatin, USP silver bbl. 100 lb cs.	lb	.85	.90
Gold Label, 100 lb cases	lb	...	...
Technical, 100 lb cs	lb	.60	.65
Geraniol, 50 lb cans	lb	2.75	3.50
Geranyl Acetate, 1 lb bot	lb	5.75	6.00
GLAUBER'S SALT, tech. 200 lb bags c/l wks.	100 lb	1.10	1.25
350 lb bbls. c/l wks	100 lb	1.25	1.40
Bbls. lc/l wks	100 lb	1.50	1.75
Imported, bbls. spot	lb	1.00	1.10
USP, 300 lb bbls, Imp. sp.	100 lb	...	1.25
USP, 300 lb bbls. dom. sp.	100 lb	...	1.75
USP, 300 lb bbls. c/l wks.	100 lb	...	1.40
Glucose, (Grape Sugar) dry, 100 bags, c/l NY	100 lb	3.09	3.19
Syrup, Drs. & bbls, c/l NY	100 lb	2.77	3.02
lc/l NY	100 lb	...	3.12
GLUE, pure white, bbls	lb	.30	.35
Medium white, bbls	lb	.25	.30
French, bbls.	lb	.18	.25
High Grade, bbls	lb	.35	.40
Bone, regular, bbls	lb	.10	.12
Fish, bbls.	gal	1.50	1.75
GLYCERIN, C. P. 550 lb drums	lb	...	.18½
Cans, 50 lb	lb	...	.20
Dynamite, 1000 lb drs	lb	...	.16½
Saponification, tanks	lb	.12	.12¼
Soap, Lye, tanks	lb	.10½	.11
Goa Powder, see chrysarobin			
Graphite, crude 220 lb bags	ton	15.00	35.00
Flake, 500 lb bbls	lb	.06	.10
Ground, lump, bbls	lb	.04	.05
Guaiacol liquid, USP 25 lb cans.	lb	2.50	2.60
Benzoate, 1 lb bot	lb	...	18.00
Carbonate, 5 lb boxes	lb	4.25	4.50
HAARLEM OIL, Dom. 6 gr. cs.	gross	...	3.50
Imported, 5 gr. cases	gross	5.25	5.30
Heliotropin, 10 lb bot	lb	2.50	2.75
Hexamethylenetetramine, USP 100 lb drums	lb	.95	.97½
Imported	lb	.75	.80
Rubber Makers, Impalp. Pd. drs.	lb	...	.95
Homatropine Hydrobrom. USP 1 oz. vial	oz	...	18.00
Five ozs., 1 oz. vials	oz	...	17.00
Hydrastine Alk., USP, 1 oz. vial.	oz	...	20.00
Hydchlide, USP, 1 oz: vial	oz	...	20.00
Sulfate, 1 oz. vial	oz	...	22.00
Hydrastinine Hydchlide, USP 15 gr. vials	vial	...	2.40
Hydrazobenzene, 100 lb kegs	lb	1.30	1.35
HYDROGEN PEROXIDE, 25 vol. 400 lb bbls.	lb	...	.10
USP Soln. 375 lb bbls	lb	.05	.05½
USP bot. 4 oz. cases	gross	7.50	7.75
Bot. 8 oz. cases	gross	11.00	11.25
Bot. 16 oz. cases	gross	18.50	18.75
Hydroquinone, 100 lb kegs	lb	1.05	1.20
Hyoscine Hydrobrom. USP 1 oz. vial	oz	...	21.00
Five ozs., 1 oz. vials	oz	...	20.50

Chemicals

Hyoscamine Alk. Cryst., 1 oz. vial..oz	...	:	35.00
Alkaloid, Amorphous, 1 oz. vial.oz	...	:	75.00
Hydrobromide, USP 1 oz. vial..oz	...	:	60.00
Sulfate, 1 oz. vial.....oz	...	:	35.00
INDOL, C. P. 1 oz. bot.....oz	8.50	:	9.00
Iodides, see Potass. Iodide, etc.			
IODINE, crude, 200 lb kegs.....lb	3.90	:	3.95
Resublimed, 10 lb jars.....lb	...	:	4.50
Tincture, USP 50 gal. bbls..gal	4.35	:	4.40
Carboys .....gal	4.50	:	4.60
Iodoform, powd. 10 lb bot.....lb	...	:	5.75
Crystals, 10 lb bot.....lb	...	:	6.75
Ionone, (violet) 1 lb bot.....lb	5.50	:	8.00
Iridium, metal 10oz lots.....oz	...	:	250.00
Iron, metal by hydrogen 1 lb bot. lb	.65	:	.70
IRON & AMM. CITRATE, USP 25 lb cans .....lb	...	:	.84
Green scales, 25 lb cans....lb	...	:	.84
Cacodylate, 10 lb bot.....lb	9.00	:	9.25
Citrate, USP VIII 25 lb cans..lb	...	:	.99
Chloride, see ferric or ferrous			
Hypophosphite, 5 lb cans.....lb	1.50	:	1.60
Syrup, USP VIII.....lb	...	:	.30
Iodide, 1 lb bot.....lb	...	:	4.00
Syrup, USP 5 lb bot.....lb	.33	:	.34
Nitrate, kegs .....lb	.09	:	.10
Com'l, bbls, ...100 lb	2.75	:	3.25
Oxalate, scales 25 lb cans....lb	.80	:	.82
& Ammon. Oxalate, 25 lb bxs lb	.45	:	.50
& Potassium Oxalate, 25 lb bxs. lb	.47	:	.48
& Sodium Oxalate, 25 lb bxs..lb	.40	:	.42
Phosphate, USP 25 lb cans..lb	...	:	.89
Pyrophosphate, USP 25 lb cans .....lb	.90	:	.97
Iso-Eugenol, 1 lb bot.....lb	4.25	:	4.50
JALAP RESIN, lump 5 lb tins..lb	3.25	:	3.35
Powd., tins .....lb	3.40	:	3.50
KIESELGUHR, 90 lb bags NY...ton	60.00	:	70.00

LANOLIN, see Adeps Lanae			
LEAD, metal, c/l NY.....100 lb	7.90	:	8.00
Acetate, white crystals 500 lb bbls. wks. .....lb	...	:	.13
100 to 250 lb kgs. wks. lb	...	:	.13½
White, broken, bbls. wks 100 lb	...	:	12.40
White, gran., bbls. wks.100 lb	...	:	12.65
White, powd., bbls. wks....lb	...	:	.13¾
Kegs, wks. .....lb	...	:	.14¼
Brown, broken, bbls. wks...lb	...	:	.12
USP, 100 lb kegs.....lb	.16	:	.18
Arsenate, 100 lb bbls. lc/l wks. lb	.25	:	.26
Bbls. c/l wks.....lb.	.21	:	.24
Paste, 600 lb bbls.....lb	...	:	.13
Iodide, USP VIII 5 lb bot...lb	3.00	:	3.20
Nitrate, 500 lb bbls. wks.....lb	...	:	.22
Oxide, lithge, 500 lb bbls..100 lb	10.15	:	10.40
100 lb kegs wks.....lb	...	:	.13¾
Oxide, red 500 lb bbls. wks...lb	10.65	:	10.90
100 lb kegs wks.....lb	...	:	.13¾
Peroxide, 100 lb drs.....lb	...	:	.26
White, basic carb. 500 lb bbls. wks. .....lb	.09	:	.09¼
Bbls. c/l wks.....100 lb	...	:	9.00
100 lb kegs wks.....lb	...	:	.13⅜
White, sulfate 500 lb bbls. wks. lb	.08½	:	.08¾
Bbls. c/l wks.....100 lb	...	:	8.50
100 lb kegs wks.....lb	...	:	.13¾
Licorice Ext. Mass, cases.....lb	...	:	.26
Compound powder, bbls.....lb	.11	:	.13
Powdered .....lb	.40	:	.42
Sticks, 1 oz. 100 lb cases....lb	.45	:	.50
LIME (Salts, ses Calcium Salts)			
Live, 325 lb bbls. ton lots, wks. lb	...	:	.01½
Single bbl. wks.....lb	...	:	.01¾
Hydrated, 167 lb bbl, ton lots, wks. .....lb	...	:	.01½
Single bbl, wks.....lb	...	:	.01¾
Oyster Shell, 150 lb bbl, single. lb	...	:	.03
125 lb bag .....lb	...	:	.03
Sulfur, dry 200 lb drs. NY...lb	.11	:	.12
Drs. c/l NY.....lb	...	:	.10½
38° Soln. 50 gal. bbls. NY.gal	...	:	...
Linalool, 5 lb bot.....lb	4.75	:	5.00
Linalyl Acetate, 1 lb bot.....lb	9.50	:	11.00
Benzoate, 1 lb bot.....lb	13.00	:	14.00

Litharge, see lead oxide			
Lithium Carb. USP 100 lb kgs..lb	1.50	:	1.60
Bromide, 100 lb cs.....lb	1.70	:	1.80
Citrate, USP 100 lb kegs....lb	1.60	:	1.70
Lithopone, 400 lb bbls. lc/l wks. lb	.06½	:	.07
Bbls. c/l wks.....lb	.06	:	.06½
Imported, bbls. .....lb	.05½	:	.05¾
Litmus Cubes .....lb	.90	:	1.00
MAGNESITE, crude .....ton	...	:	15.00
Calcined, 500 lb bbls.....ton	...	:	55.00
Magnesium mtl., sticks 100 lb cs. lb	1.40	:	1.50
Carb. tech. 70 lb bags NY...lb	.08	:	.08½
75 lb bbls. NY.....lb	.09	:	.09½
USP, 60 lb bbls.....lb	.10	:	.11
USP, blocks 100 lb cs. 1, 2, 4 ozs. .....lb	.19	:	.23
Chloride, fused 575 lb drs. c/l wks. .....ton	...	:	32.00
Flaked, 350 lb drs. wks...ton	...	:	34.00
Imp., fused 900 lb bbls. NY.ton	26.00	:	28.00
Fluosilicate, crystal s400 lb bbls. wks. .....lb	...	:	.15
30% soln. 500 lb bbls. wks. lb	.07	:	.07½
Soln. bbls. c/l wks....lb	...	:	.06
Glycerophosphate, 5 lb tins....lb	...	:	3.35
Hypophosphite, 5 lb cans.....lb	...	:	1.15
Oxide, USP light 100 lb bbls..lb	...	:	.45
USP, heavy 250 lb bbls....lb	...	:	.50
Peroxide, 5 lb cans.....lb	...	:	2.15
Perborate, 1 lb tins.....lb	...	:	2.25
Salicylate, 100 lb kegs.....lb	.67	:	.70
Sulfate, see Epsom Salts			
Manganese Chloride, 600 lb csk. NY .....lb	.09½	:	.10
Borate, 200 lb bbls.....lb	...	:	.18
100 lb kegs .....lb	...	:	.19
Dioxide, 80-84% 900 lb bbls. NY .....ton	80.00	:	85.00
85-90%, 900 lb bbls. NY.ton	85.00	:	90.00
Hydrated, precip. 100 lb kgs. lb	.32	:	.35

Chemicals

Manganese—(continued)			
Glycerophosphate, 5 lb tins	lb	...	3.05
Hypophos. USP VIII 5 lb cans	lb	...	1.65
Iodide, 1 lb bot	lb	...	6.25
Ore, bulk NY	unit	...	.30
Sulfate, 600 lb casks NY	lb	.10	.11
Marble Flour, bulk See also Calcium Carbonate	ton	10.00	12.00
MENTHOL, USP, 60 lb cases	lb	8.30	8.50
Less cases, 5 lb tins	lb	...	8.60
MERCURY, metal, 75 lb flask	flask	72.00	72.50
Less Flasks, 5 lb jugs	lb	1.02	1.04
Bichloride, cryst. 25 lb bxs	lb	...	1.17
Gran. powd., 200 lb kegs	lb	...	1.02
Bisulfate, 25 lb boxes	lb	...	.86
Blue Mass, 25 lb boxes	lb	...	.62
Powdered, 25 lb boxes	lb	...	.64
Blue Ointment, USP 25 lb cans 50%	lb	...	.80
USP, dilute 25 lb cans 30%	lb	...	.62
33 1/3% Mercury	lb	...	.67
Calomel, 50 lb bxs	lb	...	1.25
Citrine Ointment 25 lb jars	lb	...	.50
Iodide, green 25 lb jars	lb	...	3.86
Red, USP 25 lb jars	lb	...	3.96
Yellow, USP VIII 25 lb jars	lb	...	3.86
Red Precip. USP 25 lb bxs	lb	...	1.38
Powder, USP 25 lb bxs	lb	...	1.48
White Precip. USP 25 lb bxs	lb	...	1.49
Powder, USP 25 lb bxs	lb	...	1.54
With chalk, USP 25 lb bxs	lb	...	.62
Meta-Nitroaniline, 300 lb bbls	lb	...	.80
Meta-Nitro-para-Toulidine, 300 lb bbls.	lb	...	2.25
Meta-Phenylenediamine, 300 lb bbls.	lb	1.00	1.10
Meta-Toluylenediamine, 300 lb bbls.	lb	.95	1.00
METHANOL (Wood Alcohol)			
95%, 50 gal. drms, ext	gal	1.20	1.22
97%, 50 gal. drms. ext	gal	1.23	1.24
Pure, 50 gal. drms. ext	gal	1.30	1.32
Acetone free, 50 gal. drms. ext	gal	1.35	1.40
Methyl Acetone, 100gal. drums	gal	...	.70
Tank cars	gal	...	.65
Anthranilate, 1 lb bot	lb	4.00	4.50
Chloride, 90 lb cyl	lb	...	.50
Cinnamate, 1 lb bot	lb	4.50	5.00
Paracresol, 1 lb bot	lb	8.00	9.00
Salicylate, USP, 50 lb cases	lb	...	.62
500 lb drums	lb	...	.60
Second Hands, cases	lb	.50	.52
Methylene Blue, tech. 100 lb kgs	lb	1.00	1.50
USP, medicinal 5 lb cans	lb	2.25	2.60
Michler's Ketone, 225 lb bbls	lb	...	3.75
Milk, powd. 150 lb bbls	lb	.14	.15
Milk Sugar, see sugar of milk			
Mineral Oil, see oil mineral			
Monochlorobenzene, see chlorobenzene			
Monoethylaniline, 900 lb drs	lb	1.00	1.05
MORPHINE Sulfate, USP 5 oz. tins 10 oz.	oz.	...	5.35
Acetate, 5 oz. tins 10 oz. lots	oz.	.	5.35
Hydrobromide, 5 oz tins 10 oz. lots	oz	...	5.35
Hydchlide, 5 oz. tins 10 oz. lots	oz	...	5.35
Diacetyl Alk., ⅛ oz. vls. 10 oz.	oz.	...	8.95
Hydchlide, ⅛ oz. vls. 10 oz.	oz	...	8.10
Ethyl Hydchlide, ⅛ oz. vls. 10 oz.	oz	...	9.45
Small Sizes: ⅛ oz. vials, 50c extra; ¼s 25c extra; single oz. vls., 7c extra, over price for 5 oz. tins. 25 oz. lots in 5 oz. tins, 10c oz, lower than above schedule. Less than 10 oz. lots 15c oz. higher than above schedule.			
Musk Ambrette, 1 lb cans	lb	15.00	16.00
Ketone, 1 lb cans	lb	14.00	14.50
Xylene, 5 lb cans	lb	3.25	3.50
NAPHTHA, Solvent, 110 gal. drs. wks.	gal	...	.32
8000 gal. tank car wks	gal	...	.27
NAPHTHALENE, Flake, 175 lb bbls. wks.	lb	.06½	.07
Bbls. c/l wks	lb	.06	.07
Bbls., second hands NY	lb	.06½	.07⅛
Balls, 250 lb bbls. wks	lb	.07½	.08
Bbls. c/l wks	lb	.07	.08
Crushed bgs. wks	lb	...	.05
Crude, imp., bgs	lb	.02½	.03
Nerolin, 1 lb tins	lb	1.75	2.00
Nickel Metal, electrolytic 100 lb kegs	lb	...	.36
Shot, 100 lb kegs	lb	...	.37
Salt, single 400 lb bbls. NY	lb	.07⅛	.08
Double, 400 lb bbls. NY	lb	.08	.09
Oxide, 100 lb kegs NY	lb	.40	.42
Nitre Cake, bulk wks	ton	6.50	8.00
500 lb bbls.	ton	9.00	9.75
Nitrobenzene, crude 1000 lb drs. wks	lb	.09½	.10⅛
Redistilled, 1000 lb drs. wks.	lb	.10	.11
Nitronaphthalene, 550 lb bbls.	lb	.20	.21
Nitrotoluene, mixed 1000 lb drs. wks.	lb	.14	.15
Oil Fusel, see Fusel Oil			
OIL MINERAL, wh. 50 gal. bbls.	gal	1.00	1.25
Oil Mirbane, see nitrobenzene			
Opium, see crude drugs			
Orange Mineral, 800 lb casks NY	lb	...	.13¾
500 lb bbls. NY	lb	...	.14
Ortho-Aminophenol, 50 lb kegs	lb	2.35	2.50
Ortho-Anisidine, 100 lb drs	lb	2.00	2.10
Ortho-Dichlorobenzene, 1000 lb drs. wks.	lb	.15	.17
Ortho-Nitrochlorobenzene, 1200 lb drs. wks.	lb	.32	.35
Ortho-Nitrophenol, 350 lb bbls.	lb	.80	.85

Chemicals

Ortho-Nitrotoluene, 1000 lb drs. wks.	lb	.10	.12
Ortho-Toluidine, 350 lb bbls.	lb	.14	.16
Oxgall, USP 5 lb bot.	lb	...	3.00
PALLADIUM, metal 10 oz. lots oz		51.00	53.00
Pancreatin, USP 5 lb bot.	lb	1.25	1.40
Papain, 1 lb bot.	lb	2.15	2.25
Paraffin, ref'd. 200 lb cs. slabs			
120-125 Deg. M. P.	lb	.03¼	.03½
125-130 Deg. M. P.	lb	.04	.04½
130-135 Deg. M. P.	lb	.04	.04¾
135-140 Deg. M. P.	lb	.05	.06¼
Para-Aminoacetanilid, 100 lb kegs	lb	1.25	1.35
Para-Aminophenol, 100 lb kegs	lb	1.15	1.25
Hydrochloride, 100 lb kegs	lb	1.20	1.25
Para-Anisidine, 100 lb kgs.	lb	3.00	3.25
Technical, kegs	lb	1.65	1.75
Para-Dichlorobenzene, 270 lb bbls. wks.	lb	.17	.20
Paraldehyde, 100 gal drs.	lb	...	.35
Paraformaldehyde, USP 100 lb cs.	lb	.52½	.55
Para Nitroacetanilid, 300 lb bbls.	lb	.55	.60
PARA-NITROANILINE, 300 lb bbls. wks.	lb	.74	.76
Para-Nitrochlorobensene, 1200 lb drs. wks.	lb	.26	.28
Para-Nitro-ortho-Toluidine, 300 lb bbls.	lb	2.75	2.85
Para-Nitrophenol, 185 lb bbls.	lb	.72	.75
Para-Nitrosodimethylaniline, 120 lb bbls.	lb	...	1.14
Para-Nitrotoluene, 350 lb bbls.	lb	.65	.67
Para-oxy-Benzaldehyde, 100 lb kegs	lb	1.50	1.60
Para-Phenetidin, 500 lb drs.	lb	1.35	1.40
Para-Phenylenediamine, 350 lb bbls.	lb	1.50	1.55
Para-Toluene-Sulfonamide, 175 lb bbls.	lb	.40	.41
Para-Toluene-Sulfonchloride, 410 lb bbls. wks.	lb	.11	.13
Para-Toluidine, 350 lb bbls. wks.	lb	1.00	1.15
PARIS GREEN			
Arsenic Basis, 500 lb kegs	lb	.23	.26
Kegs, 100 lbs	lb	...	.28
Kits, 56, 28, 14 lbs.	lb	...	.29
Packages, 5 and 2 lbs.	lb	.30	.32
Packages, 1 lb, ½, ¼ lb	lb	.32	.36
Paris White, see whiting, French			
Pepsin, USP 5 lb bot.	lb	2.25	2.50
PETROLATUM, green 300 lb bbls.	lb	.02½	.03
Dark Amber 300 lb bbls.	lb	.03½	.04
Light Amber, 300 lb bbls.	lb	.03¾	.04
Cream White, USP 300 lb bbls.	lb	.07	.07¼
Lily White, USP, 300 lb bbls.	lb	.09	.09¼
Snow White, USP 300 lb bbls.	lb	.12½	.13
PHENOL, see also acid carbolic			
Open market, 950 lb drs.	lb	.32	.34
240 lb des drs.	lb	.32	.34
Natural 240 lb des drs. wks.	lb	...	...
Imported, 336 lb des. drs.	lb	.35	.40
Phenolphthalein, USP 100 lb drs.	lb	...	1.50
5 lb cans, 100 lb lots	lb	1.55	1.60
Phenylacetaldehyde, C.P., 1 lb bot.	lb	12.50	14.00
50 p.c.	lb	7.50	8.00
Phenylacetic Acid, 1 lb bot.	lb	3.00	4.00
Phenyl-Alpha-Naphthylamine 100 lb kegs	lb	...	...
Phenylethylalcohol, 1 lb bot.	lb	7.00	9.00
Imported	lb	...	12.50
Phosgene, cylinders, wks.	lb	.60	.62
Phosphorus Oxychloride, 175 lb cyl.	lb	.30	.32
Phosphorus, red 110 lb cs. wks.	lb	.35	.50
Imported, 112 lb cases	lb	...	.30
Phosphorus Sesquisulfide, 105 lb cs. wks.	lb	...	.37½
Phosphorus, yellow 110 lb cs. wks.	lb	.32	.35
Imported, 112 lb cases	lb	.25	.27½
Phosphorus Trichloride, 175 lb cyl wks.	lb	.30	.35
Phthalic Anhydride, 175 lb bbls.	lb	.35	.40
Pilocarpine Hydchlide, USP 25 oz. lots, 1 oz. vials	oz	...	8.00
Nitrate,	oz	...	8.00
Single ounces	oz	...	8.25
Alkaloid, 15 gr. vls.	ea	...	.75
Piperazine Hydrate, 1 lb bot.	lb	...	16.00
Pitch, Coal-Tar wks.	ton	30.00	33.00
Plaster Paris, tech. 250 lb bbls.	bbl	...	3.30
True Dental, 300 bbls.	bbl	...	4.50
Platinum, metal soft 10 oz. lots.	oz	...	110.00
Podophyllin, 5 lb bot.	lb	5.75	6.00
POTASH, CAUSTIC, solid 88-92% 700 lb drs. wks.	lb	...	.08
Imp., 88-92% 700 lb drs. NY.	lb	.07	.07¼
USP, by alcohol 5 lb cans	lb	.46	.48
cases	lb	.30	.35
POTASSIUM Acetate, USP 100 lb kegs	lb	.28	.29
Bicarbonate, crys. 220 lb bbls.	lb	.07½	.08
Bichromate, crys. 900 lb casks wks.	lb	.10	.10½
Powd., 900 lb casks wks.	lb	.13	.13¼
Binoxolate, 300 lb bbls.	lb	.34	.38
Bisulfate, C.P. 5 lb cans	lb	...	.80
100 lb kegs	lb	...	.22
Bromate, 100 lb cs.	lb	...	.45
BROMIDE, USP cryst. 450 lb bbls.	lb	...	.26
Granular, 300 lb bbls.	lb	...	.26
Cases, 100 lb	lb	...	.27
Imported, USP, 220 lb cs.	lb	.15½	.16

Chemicals

POTASSIUM—(Continued)

CARBONATE, 80-85% calc.			
800 lb cks.	lb	.05¾	.06
80-85%, hydrated, 800 lb. cks.	lb	.07¾	.08
90-95% casks	lb	.08¾	.07
96-98% casks	lb	.07	.07¼
99% casks	lb	.08	.08½
USP, 100 lb kegs	lb	.10	.11
Chlorate, crys. 112 lb kgs wks.	lb	.08½	.08¾
Imp. 112 lb kegs NY	lb	.07¼	.07½
Powd., 112 lb kegs wks	lb	.08½	.08¾
Imp. kegs NY	lb	.07¼	.07¾
Pyrotechnic, fine powd. NY	lb	.08	.09
USP, fine crys. 110 lb kegs NY	lb	.08	.09
Citrate, USP 10 lb cans	lb	.63	.66
Glycerophosphate, 75% Soln. 25 lb tins	lb	1.65	1.70
Guaiacol Sulfonate, 5 lb cans, 10 lb	lb	1.50	1.75
Hypophosphite, 10 lb cans	lb	...	.85
Iodide, USP, 100 lb cases	lb	3.60	3.65
Second Hands, cases	lb	...	3.55
Lactophosphate, 4oz bot	oz	...	.90
Metabisulfite, 300 lb bbls	lb	...	.23
Imp., 300 lb bbls	lb	.15	.17
Muriate, 80%, 200 lb bags, NY K_2O unit		...	.70
Nitrate, see Saltpetre			
Oxalate, neutral, 100 lb kegs	lb	.40	.45
Perchlorate, 112 lb kegs	lb	.09	.10
Permangan, USP crys, 112 lb drs.	lb	.15½	.16
USP small cry. 112 lb drms	lb	.15½	.16
Prussiate, red, 100 lb bbls	lb	...	.90
500 lb casks	lb	...	.85
Prussiate, yellow, 500 lb casks	lb	.38	.39
Salicylate, 25 lb cans	lb	.70	.72

POTASSIUM—(Continued)

Sulfate, 200 lb bags, NY. K_2O unit		...	.95
USP, VIII, 100 lb kegs	lb	.18	.20
Sulfocyanide, CP 25 lb jars	lb	...	.70
Tartrate, neutral, 100 lb kegs	lb	...	.53
Titanium Oxalate, 200 lb bbls. freight allowed	lb	...	.35
Pumice Stone, lump, 250 lb bbls.	lb	.04½	.06
Lump, bags	lb	.03½	.05
Powdered, 350 lb bbls	lb	.02¼	.03
Pyridine, 50 gal. drums	gal	2.75	3.00

QUICKSILVER, see Mercury

Quinidine Alk., 100oz tins	oz	.70	.75
Sulfate, 100oz tins	oz	...	.50

QUININE SULFATE, USP,

American, 100oz tins	oz	...	.50
1oz tins, 100oz lots	oz	...	.57
Dutch, 100oz tins	oz	...	.50
Java, 100oz tins	oz	...	.50
Japanese, 100oz tins	oz	...	.49
QUININE ALK., USP, 100oz tins	oz	...	.67
Acetate	oz.	...	.88
Arsenate	oz.	...	.88
Benzoate	oz	...	.88
Bisulfate, USP	oz	...	.50
Citrate	oz	...	.62
Dihydchlide., USP	oz	...	.66
Dihybromide	oz.	...	.66
Dicarbonate, 10oz tins	oz	...	2.50
Ethyl Carbonate, 16 oz tins	oz	...	.95
Ferrocyanide	oz	...	.88
Formate	oz	...	.85
Glycerophosphate	oz	...	.88
Hydriodide	oz	...	.88
Hydrobromide, USP	oz	...	.62
Hydrochloride, USP	oz	...	.62
Hydrochlorsulfate	oz.	...	.66

QUININE—(continued)

Hydchlide & Urea, USP	oz	...	.88
Hypophosphite	oz	...	.83
Lactate	oz	...	.78
Phenolsulfonate	oz	...	.88
Phosphate	oz	...	.74
Salicylate, USP	oz	...	.63
Tannate, USP	oz	...	.45
Tartrate	oz	...	.88
Valerate	oz	...	.89

Small Sizes: 1oz vials or cans, 50oz. lots, 5c oz extra; 5oz cans, 50oz lots 3c oz extra; 25oz cans 50oz lots, 2c oz extra; single 1oz vials or cans, 5c extra. All minor quinine salts sold and quoted basis 100oz lots in 100oz cans. Sulfate and bisulfate sold basis 100oz lots in 100oz cans. Smaller orders or containers extra as above schedule.

R SALT, 250 lb bbls. wks	lb	.55	.70
Red Lead, see lead oxide			
Red Precipitate, see mercury.			
Resorcin, see resorcinol.			
Resorcinol tech. 100 lb kegs	lb	1.50	1.55
USP, 25 lb cans	lb	2.00	2.10
Rochelle Salt, USP, 225 lb bbls.	lb	...	.21
Imp. USP, 300 lb bbls	lb	.19	.21
Rosewater, triple, 5gal. demis	gal	1.15	1.25
Rotten Stone, lump imp., bbls.	lb	.07	.08
Lump selected, bbls	lb	.09	.12
Powdered, bbls.	lb	.02	.05
Domestic, bags, mines	ton	24.00	30.00

Chemicals

SACCHARIN, USP, 1 lb cans, 25 lb			
lb	1.90	:	2.00
Soluble, USP, 1 lb cans, 25 lb . lb	1.90	:	2.00
Safrol, 60 lb cans .....lb	.55	:	.60
Sal Ammoniac, see Ammon. Chloride			
Salicin, USP, 1 lb cartons, 25 lb . lb	5.00	:	5.25
Salol, USP, 100 lb drums.....lb	.95	:	1.00
Second Hands .....lb	...	:	.90
Salt, Common, see sodium chloride.			
Salt Cake, c/l f.o.b. wks.....ton	28.00	:	30.00
SALTPETRE, Double Refined			
Granular, 400-500 lb bbls., c/l wks. .....lb	...	:	.06⅛
Less c/l works, bbls.....lb	...	:	.06¾
Large Crystals, 350-400 lb bbls., c/l wks. .....lb	...	:	.08
Small Crystals, 350-400 lb bbls. c/l wks. .....lb	...	:	.07⅛
Powdered, bbls. c/l wks....lb	...	:	.08
Imported, 500 lb bbls., NY....lb	.06½	:	.06¾
Santonin USP, 1 lb bot.....lb	175.00	:	177.00
Powd. 1 lb bot.....lb	176.50	:	178.50
Saponin, ex Quillaja, 5 lb tins...lb	1.25	:	1.56
Schaeffer's Salt, 250 lb bbls.wks..lb	.60	:	.65
Scopolamine, see hyoscine.			
Seidlitz Mixture, 225 lb bbls....lb	.17	:	.18
SILICA			
Crude, bulk, mines.....ton	10.00	:	12.00
Refined, floated, bags.....ton	18.00	:	30.00
Air floated, bags .....ton	32.00	:	50.00
Extra, floated, bags.....ton	55.00	:	65.00
SILVER, metal, American.....oz	...	:	.99¼
Foreign .....oz.	...	:	.63
Colloidal, 16oz bot.....oz	...	:	1.60
Nitrate, USP, 200oz bot.....oz	.44	:	.44½
Nucleinate, 16oz bot.....oz	.32	:	.37
Proteinate, 16oz bot.....oz	.34	:	.39
Soap, Castile, 40 lb bxs.....lb	.30	:	.25
Powd. USP, 250 lb bbls....lb	.28	:	.29
Green, USP, 150 lb kegs.....lb	.07	:	.07½
Prices on soda alkalies are based on actual percentages and not N. Y. & L. test.			
Soapstone, see Talc, crude			
SODA ASH, 58% light bgs NY flat, ex-warehouse ....100 lb	...	:	2.01
Contract, Basis 48% bags c/l wks .....100 lb	...	:	1.20
Prompt and spot, Basis 48% bags c/l wks .....100 lb	1.25	:	1.30
Soda Ash, 58% dense, bags ex-warehouse, NY .....100 lb	...	:	2.07
Contract, Basis 48% bags c/l wks .....100 lb	...	:	1.25
Pmpt. and spot, Basis 48% bags c/l wks .....100 lb	1.30	:	1.35
SODA, CAUSTIC, 76% solid, resale, NY flat .....100 lb	3.50	:	3.60
76% solid drs. ex-warehouse NY .....100 lb	...	:	3.72
Contract basis 60% c/l wks 100 lb	...	:	2.50
Pmpt and spot, Basis 60% c/l wks .....100 lb	2.57½	:	2.60
Contract 60% low grade c/l wks flat .....100 lb	...	:	2.65
Ground & flake, 76% pmpt and spot, wks c/l drs....100 lb	...	:	3.72½
Contract, 76% drums, c/l wks flat .....100 lb	...	:	3.65
76% drs. ex-warehouse NY100 lb	...	:	4.16
USP, stick, 10 lb cans.....lb	.19	:	.21
Pure, stick, by alcohol.....lb	.25	:	.27
SODIUM ACETATE, crys 450 lb bbls wks. .....lb	...	:	.07¼
Ton lots, bbls. wks.....lb	...	:	.07
Imp. 500 lb casks.....lb	...	:	.07
Aluminum Sulfate, see alum soda.			
Benzoate, USP, 250 lb bbls...lb	.65	:	.70
Bicarbonate, 400 lb bbls..100 lb	...	:	2.15
Bbls c/l wks.....100 lb	...	:	1.75
112 lb kegs .....100 lb	...	:	2.00
112 lb kegs, NY.....100 lb	...	:	2.40
Bichromate, 600 lb casks wks..lb	.07¾	:	.08
Casks, c/l wks.....lb	.07½	:	.07¾
Bisulfite, dry powder, 500 lb bbls, wks .....lb	.04	:	.04¾
Solution, 32-40°, 500 lb bbls wks .....100 lb	1.15	:	1.80
Bromide, USP, Cryst 500 lb bbls lb	...	:	.25
Cases, 100 lb .....lb	...	:	.26
Imp. USP, 112 lb cs.....lb	.17	:	.17¼
Cacodylate, USP, 5 lb bot, 25 lb .....lb	6.00	:	6.25
Carbonate, sal soda, 350 lb bbls lc/l wks .....100 lb	1.30	:	1.35
Ton lots, wks.....100 lb	...	:	1.25
USP monohyd, 100 lb keg..lb	...	:	.05½
Pure photographic, 100 lb keg .....lb	.08	:	.09
Chlorate, 112 lb kegs, wks...lb	.06½	:	.07
Imported, 112 lb kegs.....lb	...	:	.06¼
Chloride, tech 200 lb bags.ton	12.00	:	15.00
C. P. 300 lb bbls.....lb	.05	:	.06
Citrate, USP, IX, 100 lb kegs.lb	...	:	.62
USP, VIII, 100 lb kegs...lb	...	:	.55
Cyanide, 96-98%, 100 lb cases wks. .....lb	...	:	.23
Ton lots, wks.....lb	...	:	.23
73-76%, 100 lb cases, wks.lb	...	:	.20½
Imp. 128%, 200 lb cases..lb	.22	:	.23
120%, cases .....lb	.20	:	.21
Fluoride, 350 lb bbls, NY imp.lb	.09½	:	.09¾

Chemicals

SODIUM—(Continued)			
Glycerophos, USP, crys 25 lb cans	lb	1.70	1.75
Powder, 25 lb tins	lb	1.75	1.80
Solution, USP 25 lb tins	lb	1.00	1.05
Hydrosulfite, 200 lb bbls, fob, wks.	lb	.19	.22
Hydroxide, see Soda Caustic			
Hypophosphite, USP, 25 lb cans	lb	...	.75
HYPOSULFITE, tech. pea crys., 375 lb bbls. wks.	100 lb	3.50	3.75
Bbls. c/l wks.	100 lb	...	3.25
100 lb kegs wks.	100 lb	3.75	4.00
Granulated, bbls. wks.	100 lb	3.75	3.90
Bbls. c/l wks.	100 lb	...	3.75
Kegs wks.	100 lb	4.20	4.50
Regular crystals	100 lb	2.75	3.00
Iodide, USP, 25 lb jars	lb	...	4.00
Metanilate, 150 lb bbls.	lb	.80	.82
Naphthionate, 300 lb bbls.	lb	...	.56
Nitrate, crude, 95%, 200 lb bgs c/l NY	100 lb	...	2.60
Futures, NY	100 lb	...	2.62½
Double Refined, 400 lb bbls wks	lb	.04½	.04¾
Nitrite, 500 lb bbls wks.	lb	.09	.09¼
Bbls. spot, makers	lb	...	.09½
Imp. 650 lb casks	lb	.08¼	.08½
Ortho-Chloro-para-Toluene Sulfonate, 175 lb bbls wks.	lb	.25	.27
Oxalate, neutral, 100 lb kegs.	lb	...	.47
Perborate, 275 lb bbls.	lb	...	.24
Imp., 225 lb drs.	lb	.18	.19
Peroxide, 200 lb cases	lb	.25	.27
Phosphate, di-sodium, tech 550 lb bbls.	lb	.03½	.03¾
USP, gran. 275 bbls.	lb	.07	.07½
Imp. gran.	lb	.05½	.06
USP, recrys 275 bbls.	lb	.10	.11
Mono-sodium 100 lb kegs.	lb	.25	.27
Tri-sodium tech. 550 lb bbls.	lb	.04½	.05¼
Picramate, 100 lb kegs	lb	...	.60

SODIUM—(Continued)			
Para-Toluene Sulfonate, 175 lb bbls	lb	.08	.09
PRUSSIATE, yellow, 450 lb csks.	lb	.18½	.19
Pyrophosphate, 100 lb kegs	lb	.18	.22
Salicylate, 100 lb kegs	lb	.52	.54
Second Hands, USP, kegs.	lb	.45	.47
Silicate, 60° 700 lb bbls. f.a.s. NY	100 lb	...	2.00
Works, 1000 lb drums	100 lb	...	1.90
Works, tanks	100 lb	...	1.75
40° domestic, 700 lb c/l f.o.b. wks.	100 lb	...	.80
Works, 1000 lb drums	100 lb	...	.82½
Works, tanks	100 lb	...	.75
Spot, drums, bbls.	100 lb	1.25	1.50
Silicofluoride, 450 lb bbls NY.	lb	.07¾	.08
Sulphate, see Glauber's Salt.			
Sulfide, 60% solid, 650 lb drs lc/l wks.	lb	.05	.05¼
Drs. c/l wks.	lb	...	.04¾
Imp, 700 lb drs NY.	lb	...	.04
60% broken, 650 lb drs wks.	lb	.05¼	.05½
Imp, 500 lb drs NY.	lb	...	.04¼
30% crys. 400 lb bbls wks.	lb	.02¾	.03
Imp., 400 lb bbls.	lb	...	.02½
Sulfite, crys, 400 lb bbls wks.	lb	.03½	.03¾
Dessicated, 400 lb bbls.	lb	.09½	.10
Sulfocarbolate, USP, 100 lb kegs	lb	.41	.43
Sulfocyanide, 400 lb bbls.	lb	.45	.47
Tungstate, crys 100 lb kegs.	lb	...	.55
Dessicated, kegs	lb	...	.65
Solvent Naptha, see Naphtha.			
Spartein Sulfate, USP, 25oz bulk.	oz	.60	.70
Single oz. vial	oz.	...	.60
Starch, rice, 140 lb bags	lb	.09	.10

STRONTIUM Bromide, USP, 100 lb kegs	lb	...	.33
Carb. 600 lb bbls. wks.	lb	...	.07
100 lb kegs wks.	lb	...	.08
Iodide, USP, 25 lb jars	lb	...	3.90
Nitrate, 600 lb bbls. wks.	lb	.11	.11⅛
Imp, bbls. NY	lb	.08½	.10
Salicylate, USP, 100 lb kegs.	lb	...	.65
STRYCHNINE Alkaloid, USP, crys 100oz tins	oz	...	1.15
Alk, powd, USP	oz	...	1.05
Acetate	oz	...	1.05
Glycerophosphate, USP	oz	...	1.05
Hydrobromide	oz	...	1.05
Hydrochloride	oz	...	1.05
Hypophosphite	oz	...	1.15
Nitrate, USP	oz	...	1.05
Phosphate	oz	...	1.05
Sulfate, USP, crys powd.	oz	...	.84
Saccharinate	oz	...	2.15
Strychnine preparations quoted bases 100oz lots in 100oz tins. Small Sizes; ⅛ oz vials, 50c extra; ¼ oz vials, 25c extra; single ounce vials, 7c extra. Lots of 25 ozs. 5c higher than above schedule. Lots of less than 25 ozs. 10c higher per oz.			
Sugar Milk, USP, 200 lb bbls.	lb	.21	.22
Second Hands, USP, bbls.	lb	.22	.23
Sulfonal, see Sulfonmethane.			
Sulfonmethane, USP, 5 lb bxs.	lb	...	4.25
Sulfonethylmethane USP, bxs, 5 lb.	lb	...	5.25
SULFUR, crude, bulk, c/l NY.	ton	...	18.00
Crude, f.o.b. plant	ton	14.00	15.00
Brimstone, 250 lb bgs, c/l 100 lb		1.75	1.95
Less c/l bags NY	100 lb	1.85	2.10
Roll, 500 lb bbls c/l NY.	100 lb	...	2.15
Less c/l bags NY.	100 lb	2.20	2.45
Flour, Heavy, 290 lb bbls, 100 lb		2.50	3.05
Light, 100%, 260 lb bbls, 100 lb		2.60	3.15
Rubbermakers 100%, 240 lb bbls, NY	100 lb	2.60	3.15

Chemicals

SULFUR—(continued)			
Commercial, 99%, 150 lb bgs NY	100 lb	1.35	1.65
For Dusting, 99%, 100 lb bgs NY	100 lb	2.00	2.50
Flowers, 100%, 240 lb bbls NY	100 lb	3.00	3.55
Precipitated, 125 lb bbls NY	lb	.15	.18
Lac, 125 lb bbls NY	lb	.07	.10
Sulfur Chloride, red, 700 lb drs wks	lb	...	.05½
150 lb cbys wks	lb	...	.06
Yellow, 700 lb cbys. wks	lb	...	.05
150 lb cbys wks	lb	...	.05½
Sulfur Dioxide, 100 lb cyl	lb	.08	.08½
Sulfuric Ether, see Ether.			
Sulfuryl Chloride, 600 lb drs	lb	...	.70
TALC, Italian, 220 lb bags NY	ton	35.00	40.00
Refined, white, bags	ton	42.00	55.00
French, 220 lb bgs. NY	ton	25.00	30.00
Refined, white, bags	ton	32.00	45.00
Dom, crude, 100 lb bags NY	ton	15.00	18.00
Refined, 100 lb bags NY	ton	20.00	30.00
Tartar Emetic, tech. 700 lb bbls.	lb	.27	.27½
USP, 300 lb bbls.	lb	.34½	.35½
Terpin Hydrate, USP, 100 lb kegs	lb	.73	.75
Terpineol, CP 1000 lb drums	lb	.50	.60
Cans, 50 lb	lb	.55	.60
Imported, cans, 25 lb	lb	.70	.75
Terpenyl Acetate, 25 lb cans	lb	1.75	2.00
Terra Alba, No. 1, 300 lb bbls	100 lb	1.35	1.90
No. 2, bbls.	100 lb	1.25	1.35
Theobromine Alk., 5 lb cans	lb	...	6.00
and Sod. Salicylate, 1 lb bot.	lb	...	4.00
Thiocarbanilid, 170 lb bbls.	lb	.35	.37
Thymol, USP, 10 lb cans	lb	4.00	4.25
Iodide, 5 lb boxes	lb	6.75	7.00
TIN, Metal Straits, NY	100 lb	...	39.62
American standard, NY	100 lb	...	39.00
99% American, NY	100 lb	...	38.50
C.P. mossy, 25 lb bxs NY	lb	...	...

Tin—(continued)			
Bichloride, 50% soln 100 lb bbls wks	lb	.10¼	.10½
Crystals, 500 lb bbls. wks	lb	...	.32½
100 lb kegs, wks	lb	...	.33
Oxide, 400 lb bbls. wks	lb	...	.43
100 lb kegs wks	lb	...	.44
Tetrachloride, 1000 lb drs wks.	lb	.21½	.23
Tolidine, 350 lb bbls.	lb	.95	.97
Sulfate, 350 lb bbls.	lb	...	1.00
Toluene, 8000gal tank cars, wks.	gal	...	.30
110gal drs wks	gal	...	.35
Toluidine, Mixed, 900 lb drs wks.	lb	.30	.32
Tribromphenol, 100 lb cases	lb	...	1.00
Trional, see Sulfonethylmethane.			
Triphenyl Phosphate, 450 lb bbls.	lb	...	.45
Tripoli, 500 lb bbls.	100 lb	2.50	3.00
Tungsten NY	WO_3 unit	7.00	8.00
UREA, pharm 112 lb cases	lb	...	.40
VANILLIN, USP, 400oz cans	oz	.43	.45
Cans, 80 ozs.	oz	...	.45
Cans, 16oz.	oz	...	.46
Vermilion, Amer. 100 lb kegs	lb	...	.35
English, kegs	lb	...	1.30
Veratrine Sulfate, 1oz vial	oz	...	2.50
Hydrochloride, 1oz vial	oz	...	2.50
WHITE LEAD, see lead, white.			
White Precipitate, see mercury.			
hiting, 200 lb bags, c/l wks.	ton	...	18.00
Bags, l/cl wks.	ton	...	20.00
Gilders, bags	ton	13.50	15.00
French, bags, NY.	ton	...	18.00
English, bags, NY	ton	...	23.00
Witch Hazel Extract, 50gal bbls.	gal	1.20	1.25

XYLENE, 2° dist range, nitration tks wks	gal	...	.45
110gal. drs, wks	gal	...	.51
5° dist. range, 8000gal tanks wks.	gal	...	.40
110gal. drs, wks	gal	...	.46
Xylidine, 900 lb drs.	lb	.42	.43
YARA YARA, 1 lb tins	lb	2.00	2.50
Yohimbin Hydchlide, 1 oz. vial	oz	...	11.50
ZINC, METAL, high grade, slabs c/l NY	100 lb	...	8.25
Common Slabs, c/l NY	100 lb	7.20	7.25
Mossy, 25 lb bxs NY	lb	...	.15
Ammonium Chloride, soln, 400 lb bbls	lb	...	...
Carb. tech, 150 lb kegs NY	lb	.14	.16
USP, 100 lb kegs	lb	...	.30
Chloride, fused, 600 lb drs wks.	lb	...	.07
Drs. c/l wks.	lb	...	.05½
Imp. drs NY	lb	.06	.06½
Granulated, 500 lb bbls.wks.	lb	.08	.09
Imported, drs. NY	lb	.06	.06½
USP, 25 lb jars	lb	...	.20
Cyanide, 100 lb drs.	lb	.42	.43
Dust, 100 lb tins wks	lb	.09	.11
500 lb bbls, kegs, lc/l wks.	lb	.09¼	.09½
500 lb bbls, kegs, c/l wks.	lb	.08½	.09
Iodide, 5 lb botts.	lb	...	5.00
Nitrate, 25 lb jars	lb	...	.35
Oxide, Amer. 300 lb bbls, wks.	lb	.07½	.08
Bbls c/l wks.	lb	...	.07¼
French, 300 lb bbls wks.	lb	.09¼	.11¼
Bbl c/l wks	lb	.09	.09½
Bags, c/l wks.	lb	.08¾	.09
Imported, white seal, bbls.	lb	...	.12⅝
Green seal, bbls.	lb	...	.10
USP, 100 lb bbls.	lb	.15	.17
Stearate, USP, 60 lb bbls.	lb	.19½	.21
Sulfate, 400 lb bbls. wks.	lb	.03¼	.03½
Bbls c/l wks.	lb	...	.02¾
USP, 100 lb kegs.	lb	.08	.09
Sulfocarbolate, 100 lb kegs.	lb	.40	.42

Oils and Fertilizers

Oils

Castor, No. 1, 400 lb bbls	lb	.12¾	.13
80 lb cases	lb	.14	.14¼
No. 3, bbls	lb	...	.12½
Blown, 400 lb bbls	lb	...	.14¼
China Wood, bbls, spot NY	lb	.16½	.17¼
8000 gal. tks. NY	lb	...	...
Feb. forward, tanks, NY	lb	...	.14¾
Mar.-Apr. forward, tanks, NY	lb	...	.14¾
Coast, tanks, Apr. forward	lb	...	.13½
Coconut Ceylon, 375 lb bbls. NY	lb	.09½	.09¾
8000 gal. tanks, NY	lb	.08¾	.09
Cochin, 375 lb bbls, NY	lb	.10¼	.10½
Tanks, NY	lb	...	...
Manila, tanks, Coast	lb	.07¾	.08
Edible, bbls. NY	lb	.10¾	.11
Cod Newfoundland 50 gal. bbls.	gal	.64	.65
Tanks, NY	gal	.62	.63
Copra, bags	lb	.05	.05¼
Corn, ref. 375 lb bbls. NY	lb	...	.13½
Crude, tanks mills	lb	.09¾	.10
Bbls. NY	lb	.10¾	.11
COTTONSEED, crude tks. mills	lb	...	.10
P. S. Y. 100 bbl. lots NY	lb	.11	.11⅝
White, 100 bbl. lots NY	lb	...	.13½
Winter yellow, 100 bbls. NY	lb	.12½	.13⅜
Degras, Amer. 50 gal. bbls. NY	lb	...	.04¾
English, bbls. NY	lb	.04½	.05
Neutral, bbls. NY	lb	.09	.11
Grease, choice white bbls. NY	lb	.10½	.10⅝
Yellow	lb	.08½	.08¼
Brown	lb	.07⅞	.08
House	lb	...	.08½
Bone naphtha	lb	...	.07¼
Herring, Tanks, Coast	gal	...	...
Horse, 375 lb bbls. NY	lb	...	...
Lard, prime steam bbls	lb	...	.13½
Compound, bbls.	lb	...	.13
LARD OIL, Edible prime, bbls	lb	...	.14¾
Off prime, bbls	lb	...	.14
Extra, bbls.	lb	...	.13½
Extra No. 1, bbls	lb	...	.13¼
No. 1 bbls	lb	...	.13
No. 2 bbls	lb	...	.12½

LINSEED, raw c/l bbls spot	gal	...	.90
Five bbls., raw	gal	...	.93
Boiled, 5 bbl. lots	gal	...	.95
Double boiled 5 bbl. lots	gal	...	.96
Raw, Jan. c/l bbls	gal	...	.90
Feb.-Apr., c/l bbls	gal	...	.90
Imported, bbls., NY	gal	...	.85
Imp. shipment, duty paid bbls.	gal	...	.82
Menhaden, crude, bbls, wks	gal	...	.53
Crude, tanks wks Balt	gal	...	.51
Light strained, tanks	gal	...	.63
Light strained, bbls, NY	gal	.65	.67
Yellow bleached, bbls, NY	gal	.68	.70
Blown, bbls. NY	gal	.74	.76
Neatsfoot, 20° c.t. bbls. NY	lb	.18½	.20
30°, cold test, bbls. NY	lb	.15¼	.15½
Prime, bbls, NY	lb	...	.13¾
Oleo Oil, No. 1, bbls NY	lb	.13¾	.14
No. 2, bbls, NY	lb	.11½	.11¾
No. 3, bbls. NY	lb	.09½	.09¾
OLIVE, denatured bbls, NY	gal	1.10	1.12
Edible, bbls., NY	gal	1.80	2.20
Foots, bbls, NY	lb	.09¼	.09½
Shipment, duty paid	lb	.08½	.08¾
Palm Lagos, 1500 lb casks	lb	.07⅝	.08
Niger, casks	lb	.07⅝	.07½
Bonny old Calabar, casks	lb	.07¼	.07⅜
Palm Kernel, 1500 lb casks NY	lb	.09¼	.09⅜
Peanut, refined bbls, NY	lb	.16½	.17½
Crude, mills buyers' tks	lb	.13	.13¼
Crude, bbls. NY	lb	.14½	.14¾
Perilla, bbls, NY	lb	...	.17
Shipment, c.i.f. NY bbls	lb	.13½	.14
Shipment, c.i.f. NY tks	lb	.13½	.14
Poppyseed, bbls. NY	gal	...	2.50
Rapeseed, refined bbls, NY	gal	.85	.86
Blown, bbls, NY	gal	.95	.98
Red Oil, distilled, bbls	lb	.11¼	.11¾
Saponified, bbls.	lb	.11½	.11¾
Salmon, 8000 gal. tks. Coast	gal	...	.46
Sesame, domestic edible bbls	gal	...	2.50
Sod Oil, bbls. NY	gal	...	.45

SOYA BEAN, crude tks. Coast	lb	.09	.09⅛
Crude, bulk c.i.f. NY in bond.	lb	.07¼	.07⅜
Crude, bulk c.i.f. PC in bond.	lb	.07	.07⅛
Crude, bbls. NY	lb	.11½	.12
Refined, bbls, NY	lb	...	.12¾
Amer. pressed, crd. bbls. NY	lb	.11	.11¼
Sperm, 38° c. t. blchd. bbls. NY	gal	...	1.09
45° cold test, blchd. bbls. NY	gal	...	1.04
STEARIC ACID, s. p. 200 lb bags	lb	...	.12
Double pressed, bgs	lb	...	.12⅓
Double pressed, bgs, saponified	lb	...	.12⅓
Triple pressed, bgs., distilled	lb	...	.14
Triple pressed, bgs., saponified	lb	...	.14
Stearine, oleo, bbls	lb	.10¼	.10½
Lard, bbls.	lb	...	.12⅓
Tallow, edible, tierces	lb	...	.10½
City extra, loose	lb	.08¾	.09
Tallow Oil, acidless tks, NY	lb	...	.12½
Bbls, c/l NY	lb	...	.12¾
Teaseed, crude bbls. NY	lb	.12½	.12¾
Walnut, crude bbls, NY	lb	.12¼	.12½
Whale, nat. winter bbls. NY	gal	.70	.71
Blchd. winter bbls. NY	gal	.74	.77
Crude, No. 1, tanks Coast	lb	...	...
Crude, No. 2, tanks Coast	lb	...	.06½
Crude No. 3, tanks Coast	lb	...	...

Fertilizer Materials

Ammon. Sulf. bulk wks	100 lb	...	3.20
Double bgs. f.a.s. NY	100 lb	...	3.55
Blood, dried f.o.b NY	unit	...	4.70
Bone, 3 & 50 ground raw	ton	...	32.00
Raw, Chicago	ton	...	28.00
Cyanamide wks.	unit	...	2.25
Fish Scrap, dried wks	unit	...	...
NITRATE SODA, NY	100 lb	2.60	2.62½
Phosphate Rock, f.o.b. mines,			
Florida pebble, 68-78%	ton	3.00	5.50
Tennessee, 70-75%	ton	3.00	3.25
Phosphate Acid, 16% wks	ton	...	10.00
Potassium Muriate, 80%	unit	...	.70
Sulfate	unit	...	.95
Steamed Bone Meal, NY	ton	...	35.00
Tankage, ground NY	unit	4.75 &	.10
High grade, f.o.b. Chicago	unit	4.75 &	.10

Tannins and Dyestuffs

Naval Stores

(Carloads ex-yard N. Y.)

Spirits Turpentine, bbls.	gal	...	1.53
Wood Turpentine, stm. distd. bbls.	gal	...	1.46
Destructive distilled, bbls.	gal	...	1.26
Pitch, prime	bbl	6.00	6.50
Rosins. (Sold in 600 lb bbls., gross for net, quotations based on a unit of 280 lb)			
B	280 lb	...	6.15
D	280 lb	...	6.25
E	280 lb	...	6.25
F	280 lb	...	6.25
G	280 lb	...	6.25
H	280 lb	...	6.25
I	280 lb	...	6.25
K	280 lb	...	6.30
M	280 lb	...	6.75
N	280 lb	...	7.10
WG	280 lb	...	7.50
WW	280 lb	...	8.00
Rosin Oil, first run, 50 gal. bbls.	gal	...	.44
Second run, bbls.	gal	...	.48
Tar, kiln-burnt	bbl	...	12.50
Retort	bbl	...	12.00

Woods

Barwood, chips	lb	.04½	.05
Camwood, chips	lb	.09	.13
Divi Divi, pods 100-200 lb bags	ton	32.00	34.00
Fustic, sticks	ton	35.00	37.00
Chips	lb	.04	.06
Hemlock, bark	ton	16.00	18.00
Hypernic, chips	lb	.06½	.07
LOGWOOD, sticks	ton	...	30.00
Chips 150 lb bags	lb	.02½	.03
Mangrove bark, African	ton	...	35.00
Bark, South American	ton	25.00	30.00
Myrabolans, 150 lb bags J1	ton	...	28.00
B1	ton	...	24.00
R2	ton	...	17.00
Nutgalls, see Crude Drugs.			
Oak bark, whole	ton	20.00	23.00
Ground	ton	...	25.00
Quercitron bark, rough	ton	...	10.00
Ground	ton	20.00	25.00
Sumac, Sicily, 160 lb bags	ton	57.00	60.00
Virginia, 150 lb bags	ton	...	35.00
Valonia Cups, 28-33% tan	ton	31.00	35.00
Beard, 40% tan, 150 lb bgs.	ton	48.00	50.00
Wattle bark, 150 lb bags	ton	38.00	40.00

Extracts

Range of prices includes quality range for large quantity.

Annatto, fine	lb	.26	.29
Archil, double 600 lb bbls.	lb	.16	.18
Triple, 600 lb bbls.	lb	.17	.19
Conc., 600 lb bbls.	lb	.18	.20
Chestnut, clarified, 25% tks. wks.	ton	2.00	2.25
Powd., 60% 100 lb bls. wks.	lb	.05½	.05¾
Decolorized, bbls. wks.	lb	.09	.09½
Cudbear, English	lb	.21	.23
Cutch, Rangoon, 100 lb bales	lb	.13	.16
Borneo, solid, 100 lb bales	lb	.04¾	.05½
Liquid, 450 lb bbls.	lb	.10	.11
Tablets, 120 lb boxes	lb	.13	.14
Flavine	lb	.90	.95
Fustic, solid 50 lb boxes	lb	.14	.18
Crystals, 100 lb boxes	lb	.22	.24
Liquid, 51°, 600 lb bbls.	lb	.10	.14
Gal extract	lb	.16	.18
Gambier, 25% liq. 450 lb bbls.	lb	.06½	.07
Common, 200 lb cases	lb	.05½	.05¾
Singapore cubes, 150 lb bags	lb	.07	.07½
HEMATINE, Paste, 500 lb bbls.	lb	.11½	.13½
Crystals, 400 lb bbls.	lb	.16	.20
Hemlock, 25% 600 lb bbls. wks.	lb	.03½	.03½
Hypernic, 51°, 600 lb bbls.	lb	.15	.20
Indigo, Madras bbls.	lb	.85	.90
Manila, bbls.	lb		1.30
Larch, 25%, 600 lb bbls., wks.	lb	.03½	.03¾
Powd. 100 lb bags, wks.	lb	.07½	.08
Logwood, 51°, 450 lb bbls.	lb	.07½	.12½
Solid, 50 lb boxes	lb	.15	.21
Madder, Dutch	lb.	.28	.30
Mangrove, 55% 400 lb bbls.	lb	.05¼	.05½
Myrobalans, 25% liquid bbls.	lb	.04	.05
50% solid, 50 lb boxes	lb	.04½	.05
Oak, tanks wks.	lb	.04½	.04¾
23-25% liq. 600 lb bbls. wks.	lb	.05	.05¾
Osage Orange, 50° liquid	lb	.07	.08
Powd. 100 lbs bags	lb	.15	.16
Persian Berries	lb	.27	.30
QUEBRACHO, 35% liquid tks.	lb	.03¾	.04
450 lb bbls.	lb	.04¼	.04¾
35% bleaching, 450 lb bbls.	lb	.04¾	.05¼
Solid 65% 100 lb bales	lb	.04¾	.05
Clarified bales	lb	.05¼	.05½
Quercitron, 51° 450 lb bbls.	lb	.06	.07
Powdered, 100 lb boxes	lb	.09	.13
Spruce, 25% liquid tanks wks.	lb	.01	.01¼
Powd. 50% 100 lb bags wks.	lb	.02	.02¼
Sumac, liquid 450 lb bbls.	lb	.07	.09

DYERS' SUNDRIES

Albument, technical, egg 200 lb cs.	lb	...	.80
Blood, domestic, 100 lb drs.	lb	...	.35
British Gum, 140 lb bags c/l 100 lb		...	3.39
Bags lc/l 100 lb		...	3.67
Dextrin, corn 140 lb bags c/l. 100 lb		...	3.09
Bags lc/l 100 lb		..	3.37
Potato 140 lb bags c/l. 100 lb		...	.09
Bags lc/l 100 lb		.09¼	.09½
Prussian blue	lb	.60	.62
Sago Flour, 150 lb bags	lb	.03½	.03¾
Spray Yolk 150 lb cs.	lb	.35	.45
STARCH, powd. 140 lb bgs. c/1100 lb		...	2.47
Bags lc/l 100 lb		...	2.75
Pearl, 140 lb bags c/l. 100 lb		2.37	2.65
Potato, domestic, 140 lb bags.	lb	.05¼	.05½
Imported, bags duty paid.	lb	.06¾	.07¼
Tapioca Flour, high grade bags.	lb	.05	.05¾
Medium grade, bags.	lb	.03¾	.04
Low grade, bags.	lb	.03	.03½
Turkey Red Oil, bbls.	lb	.09	.11
Yolk Oil, bbls.	lb	...	.35

Crude Drugs

Crude Drugs

Accroides Gum, yel.,	lb	.18	.20
ACONITE Leaves, bales	lb	.16	.17
Aconite Root, USP, bags	lb	.35	.40
Agar Agar, 1, 200 lb bales	lb	1.60	1.65
No. 2, bales	lb	...	..
No. 3, bales	lb	1.45	1.50
Agaric, white, cases	lb	...	...
Almonds, bitter bags bxs	lb	.30	.35
Sweet, bags	lb	.45	.46
Meal, tins, boxes	lb	.28	.30
Aletris Root, bags	lb	.60	.62
Alkanet Root, bags	lb	.08	.10
Aloes, Barbadoes, 120 lb bbls	lb	.70	.75
Cape, 400 lb cases	lb	.07	.07½
Curacao, 100 lb cases	lb	.06	.06½
Socotrine, whole 100 lb cs	lb	.30	.32
Althea Root, cut cases	lb	.13	.14
Whole bags	lb	.09	.10
Ambergris, black boxes	oz	...	8.00
Grey, boxes	oz	...	28.00
Ammoniac, tears, bags	lb	1.35	1.40
Angelica Root, dom. bags	lb	.14	.15
Angostura Bark, bags	lb	.14	.15
Anise, Levant bags	lb	.17	.17½
Star, cases	lb	.15	.16
Spanish, bags	lb	.25	.27
Annatto Seed, bags	lb	.05	.05½
ARABIC GUM, 200 lb cases	lb	.26	.27
Seconds, 250 lb bags	lb	.21	.22
Sorts, amber, 200 lb bags, bls.	lb	.18½	.19
Powd., USP, 300 lb bbls	lb	.21	.23
Areca Nuts, 150 lb bags	lb	...	.09
Powd., 200 lb bbls	lb	...	.12
Arnica Flowers, bales	lb	.12	.13
Root, bags	lb	.20	.22
Arrowroot, Amer. powd. bbls	lb	.05½	.06
St. Vincent, powd. bbls	lb	.10½	.11
Asafetida, USP, 250 lb cases	lb	.32	.35
Powd., 50 lb bxs	lb	.59	.60
BALM GILEAD BUDS, bags	lb	.43	.44
Balmony Hedb, bales	lb	...	.14
BALSAMS			
Copaiba, Para, 80 lb cs	lb	.23	.25
South American, 80 lb cs	lb	.28	.29
Fir Canada, cans	gal	...	11.00
Oregon, bbls, cans	gal	1.65	1.85
Peru, 120 lb cases	lb	2.10	2.25
Tolu, 90 lb cases	lb	.75	.80
Bamboo Brier Root, bags	lb	.06	.07
Barberry Bark, tree bales	lb	.22	.24
Bayberry Bark, bales	lb	.10	.12
Wax, bbls.	lb	.28	.30
Belladonna Leaves, bales	lb	.17	.18
Root, bags	lb	.13	.14
Bees Wax, white bbls	lb	.36	.37
Yellow, refined bbls	lb	.23	.26
Crude, bags	lb	.20	.22
Benzoin Gum, Siam, boxes	lb	1.00	1.10
Sumatra, 80 lb boxes	lb	.38	.40
Berberis Aquifolium Root, bags	lb	.16	.17
Beth Root, bags	lb	.18	.20
Blackhaw Bark, root, bales	lb	.38	.43
Tree, bales	lb	.21	.22
Blood Root, bags	lb	.13	.15
Blueflag Root, bags	lb	.23	.25
Boneset Herb, bales	lb	.08	.10
Borage Flowers, bales	lb	.28	.30
Bryonia Root, bags	lb	.10	.11
BUCHU LEAVES, short, 250 lb bales	lb	...	1.10
Less, bales	lb	1.12	1.15
Long, bales	lb	...	...
Buckthorn Bark, bales	lb	.07½	.08
Burdock Root, bags	lb	...	.27
Burgundy Pitch, dom. 110 lb stands			
Gross for net	lb	...	.05
Calabar Beans, bags	lb	.13	.14
Calamus Root, bleached cases	lb	.40	.45
Unbleached, bags	lb	.07	.08
Calendula Petals, imp. bales	lb	...	.30
Callsaya Bark, bales	lb	.12	.14
Camphor, see Chemicals			
Canary Seed, Morocco bags	lb	.06	.06½
South American, bags	lb	.04⅝	.04⅝
Candelilla Wax, bags	lb	...	.35
Canella Alba Bark, bales	lb	.45	.47
Cannabis, true imp. bags	lb	...	5.75
American (no assay) bales	lb	.75	.90
USP, bales	lb	1.00	2.00
Cantharides, Chinese cases	lb	...	1.10
Powd., boxes	lb	1.30	1.35
Cantharides, Russian, cases	lb	2.00	2.10
Powdered, boxes	lb	2.25	2.30
Caraway Seed, African bags	lb	...	...
Dutch, 110 lb bags	lb	.29	.29½
Cardamom bleached cases	lb	.90	1.15
Decorticated, cases	lb	.70	.72
Green, grinding, bags	lb	.75	.77
Carnauba Wax, Flor. bags	lb	.45	.48
No. 1 N Country bags	lb	.40	.43
No. 2 N Country bags	lb	.23	.25
No. 3 Fatty Gray, bags	lb	.20	.21
No. 3 Chalky, bags	lb	.16¾	.17
Cascara Amarga, 150 lb bales	lb	.30	.32
Cascara Sagrada, bales	lb	.13½	.14
Cascarilla Bark, quills bales	lb	.30	.35
Siftings, bbls	lb	.20	.25
Cassia Buds, 66 lb cases	lb	.13	.14
China, select, mats cases	lb	.06	.08
Saigon, assort. bales	lb	.24	.26
Cassia Fistula, baskets	lb	.10	.11
Castor Beans, bags	lb	.03	.03⅛
Castoreum, 1 lb bot	lb	4.00	4.50
Catechu Gum, bags	lb	.09	.10
Catnip Herb, bales	lb	.12	.15
Celery Seed, 220 lb bags	lb	...	.24
Ceresin Wax, white bags	lb	.08½	.09
Yellow, 200 lb bags	lb	.07½	.08
CHAMOMILE FLOWERS, Roman bales	lb	1.30	1.40
Hung. cases bales	lb	.18	.19
Charcoal Willow, powd. bbls	lb	.06	.06½
Wood, powd. bbls	lb	.04	.05
Chestnut Bark, bags	lb	.07	.08
Herb, bales	lb	.06	.06⅛
Chicle Gum, bags	lb	.80	1.00
Chiretta, bales	lb	.13	.14
Cinchona Bark, red quills bales	lb	.50	.55
Broken, bales	lb	.14	.15
Cinnamon, Ceylon, bales, bond	lb	.20	.22
Civet, Abyssin horns	oz	2.75	2.85
Clover Tops, bags	lb	.09	.10
Cloves, Zanzibar, 135 lb bales	lb	.24	.25
Amboynas, bales	lb	...	...
Penang, bales	lb	...	...

Crude Drugs

Cochineal, USP boxes	lb	.40	.45
Coca Leaves, Huanuco bags	**lb**	...	...
Truxillo, bags	lb	.40	.45
Cohosh Root, Black bags	lb	.08	.08½
Blue, bags	lb	.09	.09½
Colchicum Root, bags	lb	.08	.09
Seed, bags	lb	.11	.12
Colombo Root, whole bags	lb	.03	.04
Colocynth, apples, cases, bales	lb	.15	.20
Pulp, USP bales	lb	.40	.45
Coltsfoot Leaves, bags	lb	.06	.07
Comfrey Root, bags	lb	.13	.14
Condurango Bark, bales	lb	.07½	.08
Conium Seeds, bags	lb	...	.16
Copaiba Balsam Para, see Balsams			
Copal Gum	lb	.12	.15
Coriander Seed, Bombay bags	lb	.11	.11½
Morocco, bags	lb	.12	.13
Bleached, bags	lb	.15	.15½
Corn Silk, bales	lb	.05	.05½
Cotton Root Bark, bales	lb	.13	.14
Cramp Bark, so-called bales	lb	...	.08
True, bags	lb	...	.40
Cranesbill Root, bags	lb	.10	.11
CUBEB BERRIES, XX bags	**lb**	.82½	.83
Powdered, boxes	lb	.85	.87½
Cumin Seed, Levant bags	**lb**	...	...
Morocco, bags	lb	.30	.32
Culvers Root, bags	lb	...	.70
Cuttlefish Bone, Trieste, straps	**lb**	**.19**	**.30**
Jewelers, large, straps	lb	.45	.55
Small, straps	lb	.35	.45
French, straps	lb	.19	.20
Powdered, boxes	**lb**	...	**.14**
Broken, boxes	lb	.07	.08
Damar Gum, 136 lb cases	lb	.32	.34
Damiana Leaves, bales	lb	.11	.13
Dandelion Root, Imp., bags	lb	.12	.14
Deer Tongue Leaves, bales	lb	.07½	.08
Digitalis Leaves, bales	lb	.06½	.08
Dill Seed, bags	lb	.09½	.10
Dogwood Bark, Jamaica bags	lb	.10	.11
Flowers, bales	lb	...	.15
Doggrass Root, USP cut bags	lb	.12	.14
Dragons Blood, mass cases	lb	.60	.62
Reeds, boxes	lb	...	2.50
ECHINACEA ROOT, bags	**lb**	.33	.34
Elecampane Root, bags	lb	.09	.10
Elder Flowers, bales	lb	.20	.22
Elemi Gum, 89 lb cases	lb	.10	.11
Elm, select, 5 lb bundles cases	lb	.25	.26
Grinding, bags	lb	.10	.12
Powdered, bbls.	lb	.14	.15
ERGOT, 150-200 lb bags	lb	.60	.65
Eucalyptus Leaves, bales	lb	...	.05
Euphorbia Pilulifera Herb, bags	lb	...	.20
Euphorbium Gum, cases	lb	...	.35
Powdered, boxes	lb	...	.40
Fennel Seed, French bags	lb	...	.17
German, bags	lb	...	.28
Flax Seed, whole 180 lb bbls	ea	...	12.25
Ground, 180 lb bbls	lb	.06½	.07
Foenugreek Seed, 200 lb bags	lb	.07¾	.08
Fish Berries, 100-125 lb bags	**lb**	**.03½**	**.04**
Fringe Tree Bark, bags	lb	.17	.18
GALANGAL ROOT, bags	lb	...	.09
Gambier Gum, bags	lb	.11½	.12
Galbanum Gum, cans	lb	1.20	1.35
Gamboge Gum, 160 lb cases	lb	1.15	1.20
Gelsemium Root, bags	lb	.11	.11½
Gentian Root, bags	lb	.09	.09½
Ginger, African, bags	lb	.12	.12¼
Jamaica, grinding, bags bbls	lb	.28	.38
Japan, bags	lb	.12½	.13
Cochin, ABC & lemon, bags	lb	.13	.13½
Ginseng Root, cultivated, bags	lb	8.00	10.00
Northwestern Wild, bags	lb	14.00	15.00
Southern Wild, bags	lb	10.00	12.00
Golden Seal Root, bags	lb	3.20	3.25
Powdered, boxes	lb	3.55	3.65
Grains of Paradise, bags	lb	.12	.14
Grindelia Robusta Herb, bales	lb	.09	.10
Guaiac Gum, 80 lb cases	lb	.48	.50
Guarana, tins, cases	lb	.70	.90
GUM, see Arabic Gum, etc.			
HELLEBORE ROOT,			
Black, pwd. bbls	lb	...	.14
White, bags	lb	.12	.14
Powdered, 250 lb bbls	lb	.16	.17
Helonias Root, (unicorn false)			
bags	lb	...	.68
Hemp Seed, Manchurian bags	lb	.03¾	.04
Chilian, bags	**lb**	...	...
Henbane Leaves, bales	lb	.40	.42
Henna Leaves, bales	lb	.19	.20
Powdered	lb	.23	.24
Honey, Calif., 120 lb cases	lb	.10½	.11
Hops, N. Y. prime bales	lb	.22	.23
Pacific Coast prime bales	lb	.18	.20
Horehound Herb, bales	lb	...	.11
Horsetail Rush, bags	lb	...	.15
INDIA GUM, see Karaya			
Insect Flowers, open whole bales	lb	...	...
Closed whole, bales	lb	...	...
Powdered, pure 200 lb bbls	lb	.70	.75
Flowers and stems, 50 p. c.			
200 lb bbls.	lb	.40	.42
Ipecac Root Cartagena bags	lb	...	...
Powdered, 200 lb bbls. boxes	lb	...	2.00
Rio Whole, bags	lb	...	1.75
Powdered, 200 lb bbls. boxes	lb	...	2.00
Isinglass, American, 130 lb cs.	lb	.65	.70
Russian, (Beluga) bxs ctns	lb	...	10.00
JABORANDI LEAVES, bales	lb	.25	.26
Jalap Root, whole 150 lb bags	lb	.34	.35
Powdered, USP 250 lb bbls	lb	.35	.37
Japan Wax, 224 lb cases	lb	.15	.15½
Job's Tears, white bags	lb	.08	.09
Juniper Berries, 125 lb bags	lb	.03	.03¼
KAMALA, boxes	lb	2.75	3.00
Karaya Gum, powdered bbls	lb	.12	.20
Kava Kava Root, bags	lb	.17	.18
Kino Gum, black cases	lb	.50	.55
Kola Nuts, 150 lb bags	lb	.04½	.05
Kousso Flowers, bags	lb	2.25	2.50

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LADY SLIPPER ROOT, bags	lb	.60	.62
Larkspur Seed, bags	lb	.39	.41
Laurel Leaves, bales	lb	.04½	.05
Lavender Flowers, Ordinary	lb	.25	.32
Selected	lb	.35	.37
Leeches, tubs	Per 100	7.00	7.50
Lemon Peel, bags	lb	.09	.10
Licorice Root, Russian whole	lb	.08	.08½
Spanish, natural bales	lb	.07½	.08
Powdered, bbls.	lb	.09	.10
Selected, 2 & 5 lb bundles	lb	.17½	.22
Cuttings, 125 lb bags	lb	.07½	.08
Life Everlasting Herbs, bales	lb	.05	.06
Lime Juice, clarified bbls	gal	.50	.60
Linden Flowers, with leaves, bales	lb	.25	.26
Without Leaves, bales	lb	.45	.46
Liverwort Leaves, bales	lb	.30	.32
Lobelia Herb, bales	lb	...	.15
Lobelia Seed, bags	lb	.55	.60
Lovage Root, Imported, bags	lb	...	.25
Lupulin, boxes	lb	1.40	1.50
Domestic	lb	1.30	1.40
Lycopodium, 88 lb cs	lb	.45	.48
MACE, Blauw, No. 1 cases	lb	.41½	.42
Banda, No. 1 cases	lb	.43	.44
Batavia, cases	lb	.33	.36
Malva Flowers, blue bales	lb	.30	.35
Black, bales	lb	.65	.75
Manna, large flake cases	lb	.58	.60
Small flake, cases	lb	.35	.36
Sorts, cases	lb	.33	.35
Mandrake Root, bags	lb	...	.18
Mastic Gum, 120 lb cases	lb	.45	.48
Mezereon Bark, bags	lb	.11	.12
Matico Leaves, bales	lb	.18	.20
Marjoram Leaves, German bales	lb	.22½	.23½
French, bales	lb	.14	.15
Millet Seed, dom. yellow bags	lb	.03¾	.05
Montan, Wax, crude bags	lb	.04½	.05
Bleached	lb	...	...
Moss, Iceland bales	lb	.08	.09
Irish, bleached bales	lb	.07	.09
Mullein Flowers, tins	lb	.55	.60
Musk, pods Cabardine, tins	oz	16.00	17.00
Tonquin	oz	22.00	25.00
Grain Cab.	oz	25.00	26.00
Tonquin	oz	35.00	38.00
Synthetic, see Chemicals			
Musk Root, Russian bags	lb	...	...
Mustard Seed, Bari brown bags	lb	.07½	.08
Bombay, brown	lb	.06½	.07
California, brown	lb	.07¾	.08
Yellow	lb	...	.08
Chinese, yellow	lb	.04	.04½
English, yellow	lb	.08	.09
Dutch, yellow	lb	.08	.08½
Danish, yellow	lb	.07¾	.09
Myrrh Gum, select 200 lb cs	lb	.50	.55
Sorts, cases	lb	.45	.48
NUTGALLS, Chinese bags	lb	.15	.16
Aleppy, bags	lb	.14	.15
Nutmegs, 110s cases	lb	.21	.23
75s 80s cases	lb	.25	.25½
Nux Vomica Buttons, bags	lb	.07	.07½
Powdered, 200 lb bbls	lb	.11	.11½
OAK BARK, red bags	lb	.05	.06
White, bags	lb	.05	.06
Olibanum Gum, sift 280 lb cases	lb	.10	.11
Tears, 280 lb cases	lb	.14	.15
No. 1, all white, 280 lb cases	lb	.24	.30
Opium, gum USP cases	lb	...	6.75
Granular, cans	lb	...	7.75
Powdered, USP cans	lb	...	7.75
Orange Flowers, cases	lb	...	1.00
Orange Peel, bitter bags	lb	.06	.06½
Sweet, bags	lb	.06½	.07
Orris Root Florentine bold bags	lb	.07	.08
Verona, bags	lb	.05	.06
Powdered, 200 lb bbls	lb	.08	.09
Fingers, cases	lb	.70	.75
Ozokerite Wax, brown hard bags	lb	.22	.24
Green, hard bags	lb	.25	.26
Refined, yellow bags	lb	...	...
PAPRIKA, bags	lb	.16	.24
Hungarian	lb	.27	.28
Pareira Brava Root, bags	lb	.19	.20
Parsley Seed, bags	lb	.08½	.09
Patchouli Leaves, bales	lb	.22	.25
Pepper, black Sing, bags	lb	.10½	.10¼
White, bags	lb	.13⅞	.14
Peppers, red Mombasa bags	lb	.30	.31
Cherries, bags	lb	.16½	.17
Bombay, bags	lb	.14¾	.15
Japan, bags	lb	.29	.30
Pennyroyal Herb, bales	lb	.08	.12
Peppermint Leaves, imp. bales	lb	...	.35
Domestic leaf	lb	.27	.29
Peru Balsam, see Balsams			
Pichi Leaves, bags	lb	.20	.23
Pimento, select bags	lb	.04½	.04⅝
Pink Root, true bags	lb	...	1.25
Pitch, Burgundy, see Burgundy Pitch			
Pleurisy Root, bags	lb	...	.22
Plantain Leaves, bales	lb	...	.15
Poke Berries, bags	lb	...	.15
Poke Root, bags	lb	...	.07
Pomegranate Bark, of root bags	lb	...	.30
Of Fruit, bags	lb	...	.30
Of tree	lb	...	.30
Poppy Flowers, red bags	lb	.30	.35
Poppy Seed, Dutch, bags	lb	.14	.14½
German, bags	lb	.11½	.12
Turkish, bags	lb	.06	.08
Blue Indian, bags	lb	.08	.08½
White Indian, bags	lb	.07	.07½
Prickly Ash Bark Southern, bags	lb	.14	.14½
Northern, bags	lb	.14	.14½
Prickly Ash Berries, bags	lb	.11	.13
Prince's Pine, bales	lb	.14	.15
Pulsatilla Herb, bags	lb	.37	.40
Pumpkin Seed, bags	lb	.09	.12
QUASSIA CHIPS, bags	lb	.07	.08
Queen of the Meadow Herb, bags	lb	.06	.06½
Quince Seed, bags	lb	1.60	1.65
RAPE SEED, South Amer. bags	lb	.06¾	.07¼
Dutch, bags	lb	.08¼	.08½
Japanese, small, bags	lb	.06¾	.07¼
Raspberries, dried boxes	lb	.35	.40
Red Saunders	lb	.17	.19
Rhatany Root, bags	lb	.10	.11
RHUBARB, H. D. cases	lb	.42	.43
Powdered, 200 lb bbls	lb	.50	.52
Rosemary Leaves, bales	lb	.04	.05

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Rosemary Flowers, cases bales	lb	.28	.30
Rose Petals, pale	lb	.22	.25
Red	lb	...	.60
Rue Herb, bales	lb	.30	.35
SABADILLA SEED, bags	lb	.10	.12
Powder, bbls.	lb	.13	.14
Saffron Flowers, Amer. bales	lb	1.40	1.45
Valencia, 1 lb cans	lb	35.00	36.00
Sage, Dalmatian bales	lb	.05½	.06½
Greek, bales	lb	.03½	.04
Spanish, bales	lb	.03	.04
Sandalwood, chips bags	lb	...	.35
Ground, bags	lb	...	.40
Sandarac Gum, 300 lb bbls.	lb	.23	.25
Sarsaparilla, Honduras bales	lb	.49	.50
Mexican, bales	lb	.22	.23
Sassafras Bark, ordinary bales	lb	.12	.14
Select, bales	lb	.22	.30
Savory Leaves, bales	lb	.09½	.10
Saw Palmetto Berries, bags	lb	.12	.13
Scammony Resin, boxes	lb	1.00	1.10
Scammony Root, bags	lb	.06	.07
Senega Root, bags	lb	.75	.80
SENNA, Alex, 150 lb cases	lb	.30	.32
Half Leaf, 350 lb bales	lb	.14	.17
Siftings, 400 lb bales	lb	.09	.09½
Powdered, 200 lb bbls.	lb	.12	.13
Tinnevelly, job, 350 lb bales	lb	.12	.14
Grinding, 350 lb bales	lb	.05	.08
Pods, 350 lb bales	lb	.06	.06½
Powdered, 200 lb bbls.	lb	.08	.08½
Serpentaria Root, bags	lb	.85	.90
Shellac, T.N., bags	lb	...	.80
Superfine Orange, bags	lb	...	.85
D. C., bags	lb	...	1.00
V. S. O., cases	lb	...	1.00
Pwd. reg., 350 lb bbls.	lb	...	.90
Regular Bleached, 350 lb bbls.	lb	...	.85
Bone, Dry, 350 lb bbls.	lb	.90	.95
Simaruba Bark, bales	lb	.11	.12
Sideritis Herb, cut bags	lb	...	.22
Skullcap Leaves, bales	lb	...	.38
Sloe Berries, bags	lb	.03	.04
Snake Root, Canada natural bags	lb	.32	.33
Stdipped, bags	lb	...	.55
SOAP BARK, whole, 150-200 lb bales	lb	.06½	.07
Cut, 125-175 lb bags	lb	.07½	.08
Crushed, 200 lb bbls.	lb	.08½	.09
Powdered, 200 lb bbls.	lb	.13	.14
Spearmint Leaves, American bales	lb	.23	.24
Spermaceti, blocks cakes cases	lb	.36	.37
Spikenard Root, bags	lb	.15	.16
Spruce Gum, boxes	lb	1.00	1.50
Squaw Vine, bales	lb	.16	.17
Squill Root, white bags	lb	.04	.04½
Stavesacre Seed, bags	lb	.28	.29
Stillingia Root, bags	lb	.09	.09½
Stone Root, bags	lb	.09	.10
Storax, liquid artif	lb	.70	.75
Gen. USP	lb	.90	1.00
St. Ignatius Beans, bags	lb	.22	.23
St. John's Bread, bags	lb	.04	.06
Stramonium Leaves, bales	lb	.06½	.07
Stramonium Seed, bags	lb	.12	.13
Strophanthus Seed, Hispidus	lb	...	...
Kombe, bags	lb	.30	.35
Sunflower Seed, domestic bags	lb	.07	.07½
South American, bags	lb	.07	.07½
TAGALDER BARK, bags	lb	.05	.05½
Tamarinds, bbls.	lb	.04½	.04¾
Kegs	per keg	3.25	3.50
Tansy Herb, bales	lb	.14	.15
Tar, **Barbadoes, 50 gal. bbls. gal.**		1.60	1.75
Thus Gum, 280 lb bbls.	lb	.04½	.08
Thyme, Spanish bales	lb	...	.08
French, bales	lb	.11	.12
Tilia .See Linden			
Tolu Balsam, see Balsams			
Tonga Bark, bags	lb	.30	.31
Tonka Beans, Angostura cases	lb	2.15	2.25
Para, cases	lb	.80	.85
Surinam, cases	lb	.85	.95
Tragacanth Gum, No. 1, ribbon, 200 lb cs.	lb	1.75	1.80
No. 2 to No. 6, cases	lb	1.00	1.50
Powdered, 50 lb boxes	lb	1.00	1.50
Turkish, cases	lb	.75	.90
Turmeric Root, Madras bags	lb	.07	.07¼
Aleppy, bags	lb	.06¼	.06½
China, bags	lb	05½	.06
Turpentine, Venice, true 80 lb cs.	lb	.22	.25
Artificial, 80 lb cases	lb	.11	.12
Spirits, see Naval Stores			
UNICORN ROOT, false, see Helonias True, see Aletris			
Uva Ursi Leaves, bales	lb	.05½	.06
VALERIAN ROOT, Belgian bags	lb	.13	.14
Vanilla Beans Mex. whole cases	lb	8.00	10.00
Cuts, cases	lb	7.00	7.25
Bourbon, cases	lb	2.75	3.25
South American, cases	lb	7.00	7.25
Tahiti, yellow label cases	lb	1.80	2.00
Green Label cases	lb	1.80	2.00
Violet Flowers, bags	lb	.65	.70
WAHOO BARK, of root bags	lb	1.10	1.25
Of Tree, bags	lb	.45	.48
White Pine Bark, rossed, bags	lb	.06	.07
White Poplar Bark, bags	lb	.04	.05
Wild Cherry Bark, thin green Rossed, bales	lb	.10	.12
Thick Rossed, bales	lb	.07	.07½
Thin Natural, bales	lb	.08	.08½
Thick Natural, bales	lb	.04½	.05
Willow, bark bags	lb	...	.06
White, bags	lb	...	.15
Witch Hazel Bark, bags	lb	...	.06
Witch Hazel Leaves, bales	lb	...	.07½
Worm Seed, American bags	lb	.08½	.09
Levant bags	lb	3.25	3.50
Wormwood Herb, imported bales	lb	...	.09
Yacca Gum, red	lb	.04	.04¼
Ground	lb	.05½	.06½
YELLOW DOCK ROOT, bags	lb	.13	.15
Yellow Parilla Root, bags	lb	.16	.17
Yerba Santa, bags	lb	.10	.11
Zedoary Root, bags	lb	.10	.11

Essential Oils

Essential Oils

Almond, Bitter USP 5 lb bots	lb	3.75	4.00
Bitter ff PA 5 lb bots	lb	3.75	4.00
Artificial. (See Benzaldehyde—Chemicals)			
Sweet, 56 lb cans	lb	.38	.40
Peach Kernel, 55 lb tins	lb	.25	.27
Apricot, see Peach Kernel			
Amber, crude 25 lb tins	lb	.75	.86
Rectified, 25 lb tins	lb	1.00	1.10
Angelica Root, 1 lb bot	lb	33.00	39.00
Seed, 1 lb bot	lb	36.00	38.00
ANISE, Tech., 66 lb case	lb	.48	:50
USP 50 lb tins	lb	.55	.60
Bay, 25 lb tins	lb	2.50	2.60
Bergamot, USP, 25 lb coppers	lb	2.75	3.00
Artificial, 25 lb cans	lb	2.00	2.25
Birch Tar, rect. 5 lb bot	lb	1.10	1.15
Crude, 50 lb tins	lb	.60	.65
Bois de Rose, 25 lb tins	lb	2.30	2.50
Cade, USP, 25 lb tins	lb	.45	.50
USP. 5 lb bot	lb	.55	.60
Cajuput, native 50 lb tins	lb	.75	.80
Calamus, 5 lb bot	lb	4.25	4.75
Camphor, heavy, 1000 lb drums	lb	.11½	.12
Japanese, white, 72 lb cases	lb	.15	.17
White, 1000 lb drums	lb	.14½	.15
Cananga, Native 25 lb tins	lb	2.25	2.50
Rectified, 25 lb tins	lb	2.50	2.75
Caraway, USP, rec. 25 lb tins	lb	6.00	6.50
Crude, 50 lb tins	lb	...	...
Cardamom, USP, 1 lb bot	lb	13.00	15.00
Carvol, 5 lb bot	lb	8.50	9.00
CASSIA, 75-80 p.c. 66 lb cases	lb	...	...
Redistilled, USP 50 lb cans	lb	2.10	2.15
Cedar Leaf, 50 lb tins	lb	.85	1.00
Cedar Wood, light 1000 lb drums	lb	.25	.26
Celery, 1 lb bot	lb	9.00	9.50
Cinnamon, Ceylon 1 lb bot	lb	12.00	15.00
Leaf, 5 lb bot	lb	...	2.00
CITRONELLA, Ceylon, 1000 lb drs.	lb	.60	.61
50 lb tins	lb	.61	.62
Java, 400 lb drums	lb	.82½	.85
50 lb tins	lb	.85	.90
Cloves, USP, 50 lb cans	lb	2.00	2.25
6 lb bot.	lb	2.10	2.35
Copaiba, USP 50 lb tins	lb	.40	.45
Coriander, USP 1 lb bot	lb	22.00	23.00
Croton, USP 25 lb tins	lb	1.00	1.10
Cubebs, USP 5 lb bot	lb	5.75	6.00
Cumin, 1 lb bot	lb	12.50	15.00
Dill, 1 lb bot	lb	4.75	5.00
Erigeron, 20 lb tins	lb	.95	1.00
EUCALYPTUS, Austl. USP			
56 lb cs.	lb	.42½	.45
500 lb drums	lb	...	.42½
Fennel USP, 25 lb tins	lb	1.25	1.30
Geranium, Algerian, 25 lb tins	lb	...	8.50
Bourbon, 25 lb tins	lb	5.50	6.00
Turkish, 28 lb tins	lb	...	4.50
Ginger, 1 lb bot	lb	5.25	5.50
Gingergrass, 28 lb tins	lb	2.75	3.00
Hemlock, 50 lb cans	lb	...	1.45
Juniper Berries, USP 25 lb tins	lb	1.10	1.25
Wood, 50 lb tins	lb	.50	.60
Lavender, USP, 28 lb tins	lb	2.75	3.50
Spike, Spanish 50 lb cans	lb	.70	.80
LEMON, Ital. USP, 25 lb tins	lb	.65	.80
American, USP, 25 lb tins	lb	.75	.85
Lemongrass, native, 50 lb cans	lb	.80	.85
Limes, express 25 lb tins	lb	1.65	1.75
Distilled, 25 lb tins	lb	.48	.50
Linaloe, Mex. 80 lb cases	lb	2.15	2.35
Mace, distilled 50 lb tins	lb	.95	1.05
Mirbane, ref., see Ar. Chemicals			
Mustard, USP, 1 lb bot	lb	...	17.00
Artif., USP, 5 lb bot	lb	3.00	3.25
Neroli, Bigarade, ½ and 1 lb bot.	lb	75.00	100.00
Petale, 1 lb bot.	lb	90.00	115.00
Artificial, 1 lb bot	lb	10.00	25.00
Nutmeg, USP, 25 lb tins	lb	.85	.90
Orange, bitter 25 lb tins	lb	1.90	2.00
Sweet, W. Ind., 25 lb tins	lb	2.20	2.35
Italian, 25 lb cop	lb	2.40	2.50
American, 25 lb tins	lb	2.65	2.70
Origanum, 50 lb cans	lb	.25	.35
Parsley, 1 lb bot	lb	5.00	5.50
Patchouli, 5 lb bot	lb	8.00	8.50
Pennyroyal, dom 25 lb tins	lb	1.95	2.25
Imported, 25 lb tins	lb	1.65	1.75
PEPPERMINT, nat. 60 lb cases	lb	2.90	3.00
Redist., USP, 60 lb cases	lb	3.15	3.25
Petit Grain, S. Am. 25 lb tins	lb	1.60	1.75
French, 1 lb bot	lb	7.00	7.50
Pimento, 25 lb tins	lb	1.75	1.90
Pinus Sylvestris, 25 lb tins	lb	...	1.75
Pumilio, USP 25 lb tins	lb	...	2.75
Rose, Fr., 8, 16 & 32 oz pkgs.	oz	...	9.00
Bulg., 8, 16 & 32 oz pkgs.	oz	5.50	6.00
Artificial, 1 lb bot	oz	2.00	3.00
Rosemary, USP, 27½ lb tins	lb	.45	.48
1000 lb drums	lb	...	.42½
Tech., 27½ lb tins	lb	.40	.45
Rue, 1 lb bot	lb	...	4.25
Sandalwood, E Ind USP, 40 lb cases	lb	7.10	7.25
W. Indian, (Amyris) 25 lb tins	lb	3.75	3.90
Sassafras, USP 50 lb cans	lb	.85	.90
Artificial, 63 lb cans, 1000 lb drs.	lb	.42	.45
Savin, 5 lb tins	lb	3.25	3.50
Spearmint, USP 60 lb cases	lb	...	2.50
Spruce, 50 lb tins	lb	...	1.45
Tansy Amer., 20 lb tins	lb	7.50	8.00
Tar, 50 gal. bbls	gal	.26	.27
Refined, USP 25 lb tins	lb	...	...
Thyme, red, USP 25 lb tins	lb	.90	1.00
White, USP 25 lb tins	lb	1.10	1.15
Crude, 110 lb drums	lb	.85	.90
Vetivert, Bourbon 1 lb bot	lb	5.50	6.00
Java, 1 lb bot	lb	24.00	27.00
Wine, heavy 1 lb bot	lb	...	2.75
WINTERGREEN,			
Sweet birch, 25 lb tins	lb	2.00	3.00
Gaultheria, true 25 lb tins	lb	4.00	7.00
Synthetic, USP, 50 lb cases	lb	...	.62
Wormseed, Balt., USP, 25 lb tins	lb	3.85	4.00
Wormwood, dom., 25 lb tins	lb	8.00	8.50
Ylang Ylang, Bourbon 10 lb tins	lb	6.50	7.00
Manila, 1 lb bot	lb	30.00	35.00
Artificial, 1 lb bot	lb	10.00	12.00

OLEORESINS

Aspidium, USP 1 lb bot	lb	2.75	3.00
Capsicum, USP, 5 lb bot	lb	2.25	2.50
Cubeb. USP 1 lb bot	lb	5.20	5.30
Ginger, 5 lb bot	lb	2.50	2.65
Malefern, See Aspidium			
Mullein (so-called) 1 lb bot	lb	...	1.50
Orris, 1 lb bot	lb	...	18.00
Pepper, black, USP, 1 lb bot	lb	3.50	4.00
Vanilla, 1 lb bot	lb	9.00	9.50

Aromatic Chemicals

NATURAL DERIVATIVES			
Anethol, 2 lb bot.	lb	1.60	2.00
Borneol, 1 lb bot.	lb	...	3.50
Citronellal, 1 lb bot.	lb	2.00	2.25
CITRAL, 25 lb cans	lb	2.75	3.00
EUCALYPTOL, USP, 25 lb cans.	lb	.80	.85
Eugenol, USP, 25 lb cans.	lb	3.50	3.75
Geraniol, Domestic, 50 lb cans.	lb	2.75	3.25
Imported, 5 lb bot.	lb	3.25	3.75
Iso-Eugenol, 1 lb bot.	lb	4.25	4.50
Linalool, 5 lb bot.	lb	4.50	4.75
MENTHOL, 60 lb cases	lb	8.00	8.20
Less cases, 5 lb cans	lb	...	8.50
Rhodinol, 1 lb bot.	lb	15.00	16.00
SAFROL, 60 lb cans	lb	.55	.60
Thymol, USP, 10 lb cans	lb	4.00	4.25
SYNTHETIC AROMATICS			
Acetaldehyde, 50% sol pure, 5 lb bot.	lb	1.75	2.00
Acetophenone CP, 1 lb bot.	lb	4.00	4.25
Amyl Acetate, pure, 5 gal cans.	gal	5.00	6.00
Amyl Butyrate, 1 lb bot.	lb	2.00	2.10
Amyl Formate, 1 lb bot.	lb	1.75	2.00
AMYL SALICYLATE, 100 lb cbys.	lb	1.45	1.60
Anisic Aldehyde, 1 lb bot.	lb	4.00	4.50
BENZALDEHYDE, USP, 40 lb cbys	lb	1.40	1.50
FFC. 40 lb cbys.	lb	1.70	1.80
Benzoic Ether, See Ethyl Benzoate			
Benzyl Acetate, 100 lb cbys.	lb	1.50	1.65
Benzyl Alcohol, 5 lb bot.	lb	1.25	1.50
BENZYL BENZOATE, 5 lb bot.	lb	1.85	2.00
Medicinal FFC	lb	2.10	2.20
Benzyl Formate, 1 lb bot.	lb	2.50	3.00
Bromstyrol, 25 lb kegs	lb	4.00	4.25
Butyric Ether, See Ethyl Butyrate			
Cinnamic Acid, 5 lb cans	lb	2.75	3.00
Cinnamic Alcohol, liquid 1 lb bot.	lb	15.00	16.00
Crystallizable	lb	20.00	21.00
Cinnamic Aldehyde, 1 lb bot.	lb	3.75	4.00
CITRONELLOL, 1 lb bot.	lb	8.00	12.00
COUMARIN, 25 lb cans	lb	4.00	4.25
DIETHYL PHTHALATE, 25 lb cans	lb	.85	.90
Diphenyloxide, 25 lb tins	lb	.85	.90
Ethyl Acetate, pure, 5 lb bot.	lb	.45	.50
Ethyl Benzoate, 5 lb bot.	lb	1.85	2.00
Ethyl Butyrate, 5 lb bot.	lb	2.00	2.25
Ethyl Cinnamate, 1 lb bot.	lb	5.50	5.75
Ethyl Formate, 5 lb bot.	lb	.95	1.00
Ethyl Valerate, 5 lb bot.	lb	4.50	4.75
Formic Ether, See Ethyl Formate			
Geranyl Acetate, 1 lb bot.	lb	5.00	5.25
Heliotropin, 10 lb bot.	lb	2.50	2.75
Indol, CP, 1oz. bot.	oz	8.50	9.00
Ionone, 1 lb bot.	lb	5.50	8.00
Linalyl Acetate, 1 lb bot.	lb	6.00	8.75
Linalyl Benzoate, 1 lb bot.	lb	13.00	14.00
METHYL ANTHRANILATE, 1 lb bot.	lb	4.00	4.50
Methyl Cinnamate, 1 lb bot.	lb	4.50	5.00
Methyl Paracresol, 1 lb bot.	lb	8.00	9.00
METHYL SALICYLATE, USP 500 lb drums	lb	...	.60
50 lb cases	lb	...	.62
Second Hands	lb	...	.55
Mirbane, rect. 1000 lb drums	lb	.12½	.14
Musk Ambrette, 1 lb cans	lb	15.00	16.00
Musk Ketone, 1 lb cans	lb	14.00	14.50
Musk Xylene, 5 lb cans	lb	3.25	3.50
Nerolin, 1 lb cans	lb	1.75	2.00
Phenylacetaldehyde, CP, 1 lb bot.	lb	9.00	11.00
50 p.c.	lb	4.00	6.00
Phenylacetic Acid, 1 lb bot.	lb	3.00	4.00
PHENYLETHYLALCOHOL dom., 1 lb bot.	lb	7.00	9.00
Imported	lb	...	12.50
Phenylpropylalcohol, 1 lb bot.	lb	15.00	16.00
TERPINEOL, CP, 1000 lb drums.	lb	.50	.60
Cans 50 lb	lb	.55	.60
Imported, 25 lb cans	lb	.70	.75
Terpinyl Acetate, 25 lb cans.	lb	1.75	2.00
VANILLIN, USP, 400 oz cans.	oz	.43	.45
Cans, 16 oz., 80 oz.	oz	.45	.46
Valerianic Ether, See Ethyl Valerate			
Yara Yara, 1 lb cans.	oz	2.00	2.50
PERFUMERS' SUNDRIES			
Almond Meal, 25 lb cans.	lb	.28	.30
Ambergris, black, bxs.	oz	...	3.00
Ambergris, gray, bxs.	oz	...	28.00
Balsam Copaiba, Para, 80 lb cases	lb	.23	.24
South American, 80 lb cases.	lb	.28	.29
Balsam Peru, 60 lb cans.	lb	...	2.25
Balsam Tolu, 90 lb cases.	lb	.75	.80
Benzoin Gum, Siam, bxs.	lb	1.00	1.10
Castoreum, 1 lb bot.	lb	4.00	4.50
Chalk, precip. light, 175 lb bbls.	lb	.04½	.05
Cherry Laurel Water, 5 gal cans.	gal	1.15	1.25
Civet Abyssin, horns.	oz	2.75	2.85
Labdanum, 5 lb bot.	lb	...	3.00
Lanolin hydrous, 350 lb bbls.	lb	.23	.24
Anhydrous, 350 lb bbls.	lb	.25	.26
Musk pods, Cabardine, tins.	oz	16.00	17.00
Tonquin, tins	oz	22.00	25.00
Grains, Cabardine, tins.	oz	25.00	26.00
Tonquin, tins	oz	35.00	38.00
Synthetic, See Aromatic Chemicals			
Orris Rt. Flor., powd. bbls.	lb	...	.10
Verona, bbls.	lb	.08	.09
Rice Starch, 140 lb bgs.	lb	.09	.10
Rose Water, 5 gal cbys.	gal	1.15	1.25
Sandalwood chips, powd, bags.	lb	.35	.40
Saponin, 5 lb tins	lb	1.25	1.50
Talc Italian, 220 lb bgs.	ton	42.00	55.00
Talc French, 220 lb bags.	ton	32.00	45.00
Talc, domestic ref., 100 lb bags.	ton	20.00	30.00

Imports of Chemicals, Dyestuffs, Drugs, etc.

Imports at New York, Jan. 13 to Jan. 20

ACETATE—5 cs., G. Lueders & Co., Havre
ACIDS—Arsenious, 215 cs., M. B. Kaisha, Kobe; 350 cs., Takata & Co., Kobe; 112 cs., Busk & Daniels, Kobe; 29 csks., Order, St. Nazaire; **Cresylic,** 22 drs., Brown Bros. & Co., Liverpool; 18 drs., W. E. Jordan, Liverpool; **Diethylbarbituric,** 1 cse., Asia Drug Co., Hamburg; **Oxalic,** 1 csk., S. Rosenblatt, Hamburg; 45 csks., R. W. Greeff & Co., Rotterdam; 5 csks., W. Ross Bro., Hamburg; 21 bbls., Phillip Bauer, Hamburg; **Phosphoric,** 150 cs., Superfos Co., Bremen; **Stearic,** 20 cs., M. W. Pearson, Rotterdam; **Tartaric,** 4 csks., Order, Rotterdam
AMMONIUM—Phosphate, 240 csks., E. Suter & Co., Antwerp
ARGOLS—10 scks.. W. R. Grace & Co., Valparaiso; 52 csks., Royal Baking Powder Co., Messina
ARSENIC—249 cs., Irving Nat. Bank, Kobe; 253 cs., G. F. Taylor & Co., Kobe; 300 cs., M. G. Kaisha, Yokohama; 125 csks., P. E. Falkingham, Rotterdam; 53 csks., Meteor Prod. Co., Rotterdam
BALSAM—10 cs., Ultramares Corp., Cristobal; 10 cs., Dodge & Olcott, Corinto
BLOOD ALBUMEN—5 csks., Innes Speiden & Co., Glasgow
BONE PHOSPHATE—500 bgs., Hollinghurst & Co., Antwerp
CAMPHOR—100 cs., Suzuki & Co., Shanghai; 100 cs., J. D. Lewis, Kobe; 600 cs., Hetherman & Co., Kobe; 200 cs., Vick Chem. Co., Kobe; 2 cs., Takata & Co., Tokyo; 100 cs., Mech. & Metals Nat. Bank, Hongkong; 50 cs., Order, Hongkong; 50 cs., Kwong Cheong, Hongkong
CANTHARIDES—6 cs., Order, Hongkong
CASEIN—8 bgs., A. Klipstein & Co., Havre; 309 scks., T. M. Duche & Sons, Bordeaux
CINCHONINE—5 cs., Mallinckrodt Chem. Wks., Rotterdam; 171 cs., R. W. Greeff & Co., Rotterdam
CLAY—21 csks., J. Goebel & Co., Bremen
COCA LEAVES—90 bls., Maywood Chem. Wks., South Amer. Ports
COLORS—6 cs., Favor Ruhl & Co., Havre; 5 csks., Ciba Co., Havre; 2 cs., Textile Alliance Co., Havre; 4 cs., W. F. Sykes & Co., Havre; 41 csks., Amer. Exch. Nat. Bank, Genoa; 119 pkgs., Irving Nat. Bank, Genoa; 6 bbls., Ladenburg, Thalman Co. Genoa; 6 bbls., Textile Alliance Co., Genoa; 3 bbls., Order, Genoa; 3 cs., Chase Nat. Bank, Rotterdam; 8 csks., Carbic Color & Chem. Co., Rotterdam; 8 csks., H. A. Metz & Co., Rotterdam; 10 csks., Kuttroff, Pickhardt Co., Rotterdam; 22 cs., Amer. Exch. Nat. Bank, Genoa; 20 csks., H. A. Metz, Rotterdam; 2 cs., Franklin Imp. & Exp. Co., Rotterdam; 17 csks., Textile Alliance, Inc., Rotterdam; 15 csks., C. Wix & Co., Rotterdam; 4 csks., H. R. Jahn, Rotterdam; 3 csks., Amer. Exch. Nat. Bank, Rotterdam; 3 csks., Grasselli Chem. Co., Rotterdam; 9 csks., W. Van Doorn, Rotterdam; 2 cs., B. F. Drakenfield, Liverpool; 244 csks., Order, Liverpool; 20 pkgs., Order, Naples; 44 csks., Ciba Co., Havre; 6 bbls., H. Backermann, Havre; 4 cs., Carbic Color & Chem. Co., Hamburg; 1 csk., Order, Hamburg
COPRA—3,446 bgs., Balfour Williamson Co., Iloilo
CYANIDE PRECIPITATES—17 bxs., South Amer. Develop. Co., Guayaquil
DEXTRINE—50 bls., Order, Rotterdam
DRIED BLOOD—592 bgs., N. Y. Trust Co., Glasgow
EPSOM SALTS—5,200 bgs., Hansa Co., Hamburg
ERGOT—8 cs., Lunham & Moore, Rotterdam
EXTRACT—Cutch, 1,000 bgs., Order, Singapore; **Logwood,** 120 csks., Order, Kingston; 167 bbls., Logwood Mfg. Corp., Cape Haitien; **Mangrove Bark,** 1,000 bgs., Order, Singapore; **Quebracho,** 1,022 bgs., Fleischmann Co., Buenos Aires; 511 bgs., Chase Nat. Bank, Buenos Aires; 2,036 bgs., Fourth Atlantic Nat. Bank, Buenos Aires
FLOWERS—Lavender, 20 bgs., Ward Line, Barcelona
GELATIN—42 cs., P. C. Zuhlke, Rotterdam; 20 cs., Amer. Exp. Co., Rotterdam
GAMBIER—279 cs., Order, Singapore
GLAUBERS SALT—500 bbls., Innes Speiden Co., Hamburg; 212 csks., Globe Shpg. Co., Hamburg; 40 bbls., J. Bendin Co., Bremen
GLYCERIN—25 drs., Marx & Rawolle, Havana
GUM—283 cs., Corn Exch. Bank, Hamburg; 69 bgs., Order, Bremerhaven; 15 cs., Dodge & Olcott, Havre; 101 cs., W. C. Miller, Havre; **Arabic,** 16 cs., A. De Ronde & Co., Antwerp; **Chicle,** 17 bls., H. Triest & Co., Vera Cruz; 21 bls., Gomez & Sloan, Vera Cruz; 50 bgs., J. Menendez, Vera Cruz; 34 bgs., J. A. Medina Co., Vera Cruz; 109 bgs., F. R. Henderson & Co., Manzanillo; **Copal,** 380 bgs., A. Klipstein & Co., Antwerp; 130 bgs., Innes & Co., Antwerp; **Damar,** 50 bgs., Smith & Schipper, Singapore
HELIOTROPIN—12 cs., Order, Hamburg
HERBS—21 bls., Peek & Velsor, Hamburg; 14 bls., Order, Hamburg; 270 bls., Interocean Fwdg. Co., Libau; 21 bls., Order, Hamburg; 100 bls., Order, Bremen; **Horehound,** 18 bls., J. L. Hopkins, Marseilles; 35 bls., Peek & Velsor, Marseilles; **Marjoram,** 17 bls., A. Stallman & Co., Hamburg; 33 bls., Van Loan & Co., Hamburg
HEXAMETHYLENETETRAMINE—15 cs., Blackburn Trdg. Co., Hamburg
HYPOSULFITE—150 csks., Pomeroy & Fischer, Marseilles
IRON OXIDE—10 csks., Order, Liverpool; 8 bbls., J. M. Rabassa, Malaga; 137 bbls., Reichard Coulston, Malaga; 140 bbls., C. K. Williams & Co., Malaga; 228 bbls., C. J.

Osborn & Co., Malaga; 84 csks., Reichard Coulston Co., Liverpool

LEAVES—511 bls., Chem. Nat. Bank, Rotterdam; **Agrostis,** 23 bls., A. Herman & Co., Marseilles; **Patchouli,** 37 bls., Brown Bros. & Co., Penang; **Rosemary,** 14 bgs., Ward Line, Barcelona

LICORICE—12 cs., Order, Catania; **Powder,** 16 pkgs., Order, Marseilles

LIME—**Borate,** 6,251 bgs., Pacific Coast Borax Co., Mejillones; **Tartrate,** 507 bgs., Harshaw Fuller & Goodwin, Valencia

LITHOPONE—200 csks., Superfos Co., Rotterdam; 200 csks., Superfos Co., Rotterdam

LYCOPODIUM—1 cse., C. Tischkowsky, Libau; 6 cs., Asia Drug Co., Hamburg; 6 cs., Peek & Velsor, Hamburg

MENTHOL—10 cs., Orbis Prod. Trdg. Co., Kobe; 25 cs., S. W. Bridges Co., Yokohama; 18 cs., Order, Yokohama; 15 cs., Chase Nat. Bank, Kobe

META CRESOL—3 drs., W. Jordan & Bro., Liverpool

METHANOL—16 drs., Amer. Trdg. Co., Kobe

MYROBALANS—145 pkts., Nat. City Bank, Calcutta; 2,270 pkts., Nat. City Bank, Calcutta; 8,296 pkts., Amer. Exch. Bank, Calcutta; 2,274 pkts., Order, Calcutta; 3,189 pkts., Order, Calcutta

NAPHTHALENE—1,422 bgs., Teipel & Co., Rotterdam

OILS—3,540 cs., Order, Lagos; 207 bbls., Order, Gytheon; **Coconut,** 1,154 tons, Philippine Nat. Bank, Manila; **China Nut,** 1,000 bbls., L. C. Gillespie & Sons, Hankow; **Olive,** 100 cs., P. Angelina & Co., Genoa; 425 cs., East River Nat. Bank, Genoa; 300 cs., Brown Bros. & Co., Genoa; 230 cs., P. Pastene Co., Genoa; 150 cs., California Bank, Genoa; 5,438 pkgs., Order, Genoa; 80 bxs., J. Victori & Co., Barcelona; 40 csks., C. Lo Guidice, Palermo; 62 cs., 3 csks., O. Marano, Palermo; 271 pkgs., Columbo Co., Palermo; 182 pkgs., Order, Palermo; 380 bbls., Ionian Bank, Piraeus; 538 bbls., Order, Piraeus; 200 cs., J. Munroe & Co., Genoa; 125 cs., J. Garneau & Co., Genoa; 100 cs., F. Luongo, Genoa; 80 cs., Falcon Pkg. Co., Marseilles; 100 cs., Irving Nat. Bank, Malaga; 141 bbls., Bank of Athens, Gandia; 200 bbls., Nat. Bank of Greece, Gandia; 75 cs., F. H. Leggett Co., Bordeaux; 100 bbls., Lazard Freres, Barcelona; 100 bbls., Order, Barcelona; 200 pkgs., Order, Seville; **Sulfur,** 447 bbls., Banca Comm. Italiana, Marseilles; 150 bbls., Banca Comm. Italiana, Catania; **Palm,** 190 csks., Leaman Co., Warri; 153 csks., Order, Warri; 38 csks., Grace Bros. & Co., Lagos; 191 csks., Niger Co., Liverpool; 130 csks., Order, Liverpool; 350 csks., African & Eastern Trdg. Co., Bremen; 764 csks., Colgate & Co., Liverpool; 166 csks., Order, Liverpool; **Peanut,** 300 cs., Ying Chong, Hongkong; **Soya Bean,** 889 tons, 75 cwt., Order; **Wood,** 290 csks., Nat. City Bank, Hankow; 296 bbls., Banque Belge pour l'Etranger, Hankow; 291 cs., East Asiatic Co., Hankow; 248 csks., Viele Blackwell & Buck, Shanghai

OILS, ESSENTIAL—2 cs., Orbis Prod. Trdg. Co., Havre; 3 cs., Roure Bertrand Co. Havre; 1 cse., Dodge & Olcott, Bremerhaven; 5 cs., Sun Tai Jan, Hongkong; 2 drs., A. Joensson & Co., Colombo; 1 cse., Dodge & Olcott, Rotterdam; 200 bbls., Bank of British West Africa, Shanghai; 11 cs., Polocks Frutal Wks., Rotterdam; 2 bbls., J. W. Lyon & Co., Valencia; 520 cs., Order, Messina; 152 cs., J. B. Horner Co., Canneto Lipari; 9 csks., 5 drs., 4 cs., Order, Marseilles; 11 csks., Order, Malaga; 100 bbls., Strohmeyer & Arpe, Seville; 250 bgs., Bank of Manhattan, Seville; 8 cs., Morana Co., Havre; 19 cs., Roure Bertrand, Havre; 180 cs., Order, Messina; 5 cs., Ungerer & Co., London; **Bergamot,** 50 cs., Order, Messina; 80 cs., A. Chiris & Co., Messina; 130 cs., G. Lueders & Co., Messina; 20 cs., Order, Messina; **Camphor,** 2 cs., Takata & Co., Tokyo; 100 drs., Dodge & Olcott, Kobe; **Cassia,** 100 cs., Schultz & Ruckgaber, Hongkong; **Geranium,** 15 csks., 1 cse., Order, Marseilles; **Juniper Berry,** 1 drum, Fritzsche Bros., Rotterdam; **Lavender,** 33 cs., Belgian Trdg Co., Havre; **Lemon,** 100 cs., Heidelbach Ickelheimer Co., Messina; 200 cs., East River Nat. Bank, Messina; 100 cs., A. Chiris & Co., Messina; 50 cs., Order, Messina; **Lime,** 4 pkgs., Huth, Gillespie & Co., Dominica; 9 pkgs., Goldman Sachs & Co., Dominica; **Mustard Artificial,** 2 cs., A. Chiris & Co., Rotterdam; 2 cs., G. Lueders & Co., Rotterdam; 8 cs., Magnus Mabee & Reynard, Rotterdam; **Orange,** 1 cse., Belgian Trdg. Co., Havre; 50 cs., Heidelbach Ickelheimer Co., Messina; 80 cs., Order, Messina; 40 cs., A. Chiris & Co., Messina; **Thyme,** 4 drs., G. Lueders & Co., London

OPIUM—40 cs., Order, Constantinople; 16 cs., Order, Constantinople

PHENYLACETICALDEHYDE—2 cs., P. R. Dreyer, Rotterdam

PIASSAVA—3,201 bdls., African & Eastern Trdg Co., Bremen

PLUMBAGO—754 pkgs., H. W. Peabody & Co., Colombo; 141 bgs., Order, Colombo

POTASSIUM SALTS—**Bicarbonate,** 82 drs., Meteor Products Co., Rotterdam; **Bromide,** 10 cs., Meadows Wye & Co., Bremen; **Caustic,** 159 drs., E. Souto & Co., Hamburg; 200 drs., Roessler & Hasslacher, Hamburg; **Chlorate,** 300 pkgs., Order, Barcelona; 20 bbls., Order, Antwerp; **Cyanide,** 120 cs., Intern. Accept. Bank, Glasgow; **Hydrate,** 97 bbls., Innes Speiden & Co., Hamburg; **Muriate,** 1,500 bgs., A. Vogel, Hamburg; 2,500 bgs., A. Vogel, Bremen; **Nitrate,** 170 csks., Kuttroff Pickhardt Co., Rotterdam; **Permanganate,** 10 drs., Pfaltz & Bauer, Hamburg; **Prussiate,** 17 csks., A. J. Marcus, Hamburg; 4 bbls., Meteor Prod. Co., Hamburg; 13 bbls., Hans Hinrichs Co., Hamburg; 19 csks., A. Klipstein & Co., Rotterdam; 9 csks., S. Rosenblatt, Hamburg; **Sulfate,** 2,000 bgs., A. Vogel, Hamburg; 500 bgs., Order, Hamburg; 3,500 bgs., A. Vogel, Bremerhaven

POTATO STARCH—250 bgs., Leyland & Co., Rotterdam; 500 bgs., China Amer. Tobacco Trdg. Co., Rotterdam; 250 bgs., A. Hoffmann, Rotterdam; 150 bgs., Farmers Loan & Trust Co., Rotterdam; 250 bgs., Order, Rotterdam; 500 bgs., Stein Hall & Co., Rotterdam

PYRIDIN—10 drs., Order, Rotterdam

QUININE—35 cs., Mallinckrodt Chem. Wks., Rotterdam; 25 cs., Mallinckrodt Chem. Wks., Rotterdam; 50 cs., R. W. Greeff & Co. Rotterdam; 20 cs., Amer. Exp. Co., Rotterdam; 50 cs., W. Van Doorn & Co., Rotterdam

ROOTS—92 bls., McLaughlin Gormley & King, Havre; 17 bgs., Order, Hamburg; 50 bls., Order, Vera Cruz; 18 bls., A. Joensson Co., Havre; 90 bls., First Nat. Bank, Havre; 192 bls., Order, Hamburg; **Bardane,** 40 bls., A. Chiris Co., Antwerp; **Broom,** 455 bls., Delauney & Co., Vera Cruz; 245 bls., Lambrecht & Hendrik, Vera Cruz; 28 bls., Order, Vera Cruz; **Gentian,** 95 bls., H. R. Lathrop & Co., Marseilles; **Licorice,** 48 bgs., McAndrews & Forbes Co., Messina; 75 cs., First Nat. Bank, Messina; 100 bgs., Order, Catania; **Orris,** 72 bgs., 1 cse., S. B. Penick & Co., Leghorn; **Rhubarb,** 20 cs., Importers Comm. Co., Shanghai; 3 cs., Order, Shanghai

ROSE PETALS—5 cs., Peek & Velsor, Havre

SARSAPARILLA—25 bls., D. L. Bretzfelder, Tampico; 20 bls., R. Fabian Co., Tampico

SAFFRON—2 cs., Order, Vera Cruz

SAL AMMONIAC—168 csks., Roessler & Hasslacher Chem. Co., Rotterdam; 40 csks., Phillip Bauer Co., Hamburg; 93 bbls., H. Hinrichs Chem. Co., Hamburg

SACCHARIN—1 cse., Monsanto Chem. Wks., Demerara

SEEDS—30 bgs., Anderson Hillier Co., Hamburg; 30 bls., A. Chiris & Co., Antwerp; **Caraway,** 300 bgs., Netherland Corp., Rotterdam; 200 bgs., Levy & Lewis, Rotterdam; 500 bgs., Jaburg Bros., Rotterdam; **Castor,** 20,000 bgs., F. Matarazzo & Co., Santos; **Flax,** 88,241 bgs., Order, Buenos Aires; **Millet,** 110 bgs., Order, Leghorn; **Mustard,** 280 bgs., Catz Amer. Co., Rotterdam; 309 bgs., Catz Amer. Co., Rotterdam; 250 bgs., Catz Amer. Co., Rotterdam; 150 bgs, Order, Rotterdam; 200 bgs., Metals Nat. Bank, Catania; **Poppy,** 100 bgs., J. Wertheimer & Sons, Rotterdam; 200 bgs., Catz Amer. Co., Hamburg; 28 bgs., Continental Shpg. Co., Danzig; 100 bgs., Abbett & Co., Rotterdam; 100 bgs., Archibald & Lewis, Rotterdam; 200 bgs., F. H. Leggett & Co., Rotterdam; 200 bgs., E. Miltenberger, Rotterdam; 300 bgs., First Federal Foreign Bkg. Corp., Rotterdam; 400 bgs., Levy & Lewis, Rotterdam; 100 bgs., J. Wertheimer, Rotterdam; 100 bgs., French Kreme Co., Rotterdam; 100 bgs., Ideal Trdg. Co., Rotterdam; 100 bgs., Levy & Lewis, Rotterdam; 400 bgs., Catz Amer. Co., Rotterdam; 300 bgs., Archibald & Lewis, Rotterdam; 100 bgs., C. E. Armstrong, Rotterdam; 100 bgs., Catz Amer. Co., Rotterdam; 300 bgs., Order, Rotterdam; **Quince,** 11 bgs., A. Joensson & Co., Malaga; **Rape,** 336 bgs., Northrup King Co., Rotterdam; 330 bgs., L. Teweles Seed Co., Rotterdam; **Sesame,** 110 bgs., Order, Shanghai; 700 bgs., Italian Discount & Trust Co., Hankow; 140 bgs., G. Segal Co., Hankow; 700 bgs., Order, Hankow

SHELLAC—150 cs., Rogers Pyatt Shellac Co., Hamburg; 44 cs., F. Henjes, Jr. Co., Rotterdam; 100 bgs., Goschen & Cunliffe, Calcutta; 591 bgs., Order, Calcutta; 150 cs., Order, Southampton; 250 bgs., Mech. & Metals Nat. Bank, Calcutta; 650 bgs., Chase Nat. Bank, Calcutta; 300 bgs., N. Y. Trust Co., Calcutta; 400 bgs., Brit. Bank of W. A., Calcutta; 100 cs., Order, Hamburg; **Button Lac.** 30 cs., Order, Southampton; 111 cs., India Trdg. Co., Calcutta; **Garnet,** 128 bgs., Kasebier Chatfield Shellac Co., Bremen; **Orange,** 363 bgs., India Trdg. Co., Calcutta; **Refuse,** 450 bgs., Bank of Manhattan Co., Calcutta

SILVER—**Sulfide,** 289 pkgs., Amer. Smelt. & Ref. Co., Arica; 1 cse., G. Amsinck & Co., Cristobal

SILVER SALT—27 csks., A. V. Berner & Co., Liverpool

SODIUM SALTS—**Cyanide,** 433 cs., Meteor Products Co., Havre; 235 cs., Nat. City Bank, Havre; 305 cs., Nat. City Bank, Marseilles; 305 cs., Order, Marseilles; 133 cs., Roessler & Hasslacher Chem. Co., Hamburg; **Nitrate,** 13,413 bgs., W. R. Grace & Co., Iquique; 54,576 bgs., A. Gibbs & Co., Iquique; **Sulfite,** 7 csks., Equit. Trust Co., Rotterdam; **Prussiate,** 43 csks., H. Kohnstamm & Co., Liverpool; 19 csks., Order, Liverpool; **Sulfate,** 130 drs., E. M. Sergeant & Co., Antwerp; **Perborate,** 100 kegs, Brown Bros. & Co., Rotterdam; **Perchlorate,** 335 bbls., Chem. Electr. Med. Prod. & Trdg. Co., Antwerp; **Fluoride,** 200 bgs., Farmers Loan & Trust Co., Rotterdam; **Sulfhydrate,** 39 drs., C. S. Grant & Co., Hamburg; 25 drs., C. S. Grant & Co., Hamburg; **Hyposulfite,** 224 bgs., Johnson & Sons, Hamburg; **Chlorate,** 20 bbls., Order, Antwerp; **Prussiate,** 51 csks., Order, Liverpool

STARCH—56 csks., L. A. Salomon & Co., Rotterdam

STRONTIUM NITRATE—37 csks., Irving Nat. Bank, Rotterdam; 76 csks., F. Boehm, Rotterdam

TALC—200 bgs., Hammill & Gillespie, St. Nazaire

TAPIOCA—**Pearl,** 140 bgs., Interntl. Bkg. Corp., Singapore

TARTAR—55 csks., W. Neuberg, Rotterdam; 10 csks., Order, Rotterdam; 100 scks., Tartar Chem. Wks., Marseilles

VANILLA BEANS—23 cs., N. Y. Trust Co., Havre; 1 cse., H. Triest, Vera Cruz; 17 cs., Thurston & Braidich, Vera Cruz; 24 cs., Irving Nat. Bank, Marseilles; 23 cs., Thurston & Braidich, Marseilles

WAX—1 bg., D. Steengrafe, Aguadilla; 88 cs., Lazard Freres, Havre; 50 cs., Amer. Exch. Nat. Bank, Havre; 20 cs., Tice & Lynch, Havre; **Bees,** 10 csks., Order, Santos; 12 bgs., R. Montval, Talcahuano; 4 bgs., R. Montval, Valparaiso; 176 bgs., Banco Nacional Ultramarino, Lisbon; 16 bgs., R. Desvernine, Santiago

ZINC—**Dust,** 100 cs., M. G. Kaisha, Yokohama

VANILLA IMPORTED AT SAN FRANCISCO

Imports at San Francisco for the second week of January included the following: On the steamer Ventura, from Sydney, to order 338 packages kauri gum, to Dr. Nelson 2 cases eumenthal jujubes; from Pago Pago, to order 148 bags copra and 67 bags cocoa beans, and to Wightman & Crane 1,990 bags copra.

On the steamer Tahiti, from Raratonga, to Atkins, Kroll & Co. 422 sacks copra, to Wightman & Crane 835 sacks copra; from Papeete, to G. A. Moore & Co. 8 cases vanilla beans, to Wightman & Crane 3,425 sacks copra, to order 2,933 sacks copra, to Kidder, Peabody & Co. 1,424 sacks copra, to Atkins, Kroll & Co. 2,294 sacks copra, to C. H. Durell & Co. 3 cases vanilla beans, to the O'Connor Harrison Co. 16 cases vanilla beans, to Williams, Dimond & Co. 17 cases vanilla beans, to order 2,759 sacks copra, to Henry Gray & Co. 657 sacks copra, and to Buck & Stoddard 1,760 sacks copra.

On the steamer Nankoh Maru, from Otaru, to order 3,125 bags rape seed, and to Bank of California National Association 1,250 bags rape seed.

On the steamer Arakan, from Batavia, to S. L. Jones & Co. 47 bales cassia, to the Bank of California National Association 300 bags pepper, to order 100 cases gum damar, to Pacific Orient Co. 183 bags pepper berries, to M. M. Newhall & Co. 98 bags tapioca seed, to H. F. Blum & Co. 365 bags pepper, to order 288 bags tapioca pearl and 116 bags tapioca seed; from Macassar, to the Pacific Orient Co. 50 cases mace, to the Hongkong, Shanghai Banking Corp., 40 cases gum copal; from Balik Papan, to Shell Oil Company 3,200 bags white paraffine wax.

NOT BUYING AMERICAN PHOSPHATE

Importers and dealers in chemical fertilizers in the Lisbon district (Portugal) state that during the past year importation of American phosphate rock has been discontinued and that practically all shipments of this product are now effected from French North Africa, writes American Consul Vogenitz, of Lisbon. The reason given for this action is that the cost in Lisbon of Tunisian phosphate is considerably less than one-half of the cost of American phosphate and that the rock is softer and can be ground in from one-third to one-fourth the time required for grinding the American rock.

DEMAND FOR FERTILIZERS IN ITALY

(*Special Correspondence to* DRUG & CHEMICAL MARKETS)

Turin, Italy, Jan. 12.—The demand for fertilizers has been fair, and good orders were booked for bone superphosphates and calcium cyanamid. Present quotations per 100 kilos are as follows: Mineral superphosphates, lire 29 to 30; bone superphosphates, lire 51 to 53; Thomas slag, lire 40 to 42; nitrate of soda, lire 125 to 130; nitrate of ammonia, lire 108 to 110; calcium cyanamid, lire 108 to 112.

TRIESTE PRICES OF HEAVY CHEMICALS

(*Special Correspondence to* DRUG & CHEMICAL MARKETS)

Trieste, Italy, Jan. 12.—Quotations for chemicals are as follows per 100 kilos: Alum, lire 200; bichromate of potash, lire 1,300; refined borax, lire 355; hypochlorite of lime, lire 145; English chloride of ammonia, lire 350; soda crystals, lire 68; soda ash, lire 100; caustic soda, lire 320; sulfate of copper, lire 300; sulfate of iron, lire 75; sulfate of magnesia, lire 100.

Books of Trade Interest

ORIGIN AND HISTORY OF ALL THE PHARMACOPOEIAL VEGETABLE DRUGS, chemicals and preparations, with bibliography. Volume I: Vegetable Drugs. By John Uri Lloyd. 8 x 6 inches, 449 pages, cloth. Cincinnati. The Caxton Press.

This work, which has been prepared under the auspices and published by the American Drug Manufacturers' Association, constitutes a notable addition to scientific and commercial pharmaceutical literature, and if the distinguished author had made no other contribution to the drug industry, this book alone would be sufficient to accord him a foremost place as a research worker in his chosen field. The material here gathered together represents years of persistent and intelligent effort. The book is a veritable history of all botanical drugs that have been recognized in the various revisions of the United States Pharmacopoeia from its first publication in 1820 down to the present time.

The plan followed in the book is logical and scientific. Each drug is introduced in alphabetical order in accordance with its pharmacopoeial name with a statement as to its status in each revision of the U. S. P., this statement being followed by an article which gives such information as the geographic distribution of the plant, the various popular designations of the drug, its therapeutic repute from the earliest times to the present, and an outline of the various stages it passed through on its road to professional recognition, including the research that has crystallized in our present pharmaceutical and medical knowledge of the drug.

This book should prove of great value to everybody engaged in manufacturing pharmacy. A thorough knowledge of the origin and history of any drug is a prime requisite to any one attempting to solve drug problems. As products of their environment the very clue to the meaning of most drugs lies in a knowledge of their surroundings and natural properties, and this book brings to hand a vast amount of material in this field of the world's activities. As showing the magnitude of the work, nearly eight hundred authors are credited in the section devoted to bibliography, the list embracing the citations of about one thousand titles. The index is thoroughly comprehensive and the bookwork most commendable.

TECHNICAL PROCEDURE IN EXPORTING AND IMPORTING. By Morris S. Rosenthal, Manager of the Export Department, Stein Hall & Co., Inc. 8vo., 312 pages. Illustrated. McGraw-Hill Book Co., New York.

The author begins his work with a discussion of the sales contract, then takes up an export shipment from the factory and follows it to destination. The routing by railroad and steamship are explained in detail. Chapters are devoted to packing the goods, customs regulations, marine insurance, financing the shipment, bill of lading, tariff and credit. The book is a complete and practical treatise on exporting and importing as exemplified in the business of a leading firm.

LUBRICATION AND LUBRICANTS. By J. H. Hyde. Duodecimo, 114 pages. Isaac Pitman & Sons, New York.

A compact work for the use of engineers and chemists. The subject is presented in brief form with the assumption that the reader is acquainted with engineering and chemical terms in common use, and able to follow the description of experimental work without detailed explanation. The theory of lubrication, and the mechanical testing of lubricants are explained in early chapters, followed by physical and chemical testing and examples of lubrication. A useful pocket edition.

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FOR LEASE OR SALE—Chemical factory in New Jersey, situated 20 miles from New York; in city of 50,000. Twelve buildings in excellent condition, aggregating 26,000 square feet of ground floor space on one and one quarter acres of property with railroad siding. Ample supply of male and female labor at favorable rates. Will lease part of property if desired. Inquire of R. S. Bicknell, 140 Nassau St. Telephone, Beekman 9544.

A. P. K. R. S. Somasundara Nadar, Tuticorin, South India. Dealer in Tinnevelly Senna, Red Pepper, Nux Vomica, etc. For terms apply direct.

LABORATORY—A LARGE ORGANIZATION ENGAGED IN EXPERIMENTAL WORK DESIRES TO EITHER PURCHASE OR LEASE A CHEMICAL OR DEVELOPMENT LABORATORY LOCATED WITHIN 45 MINUTES OF LOWER NEW YORK. ADDRESS "E. L." P. O. BOX 822, CITY HALL STATION, NEW YORK CITY.

EXPORT TO MEXICO—Spaniard, 35, married, ex-member American Chamber of Commerce, Valparaiso, Chile, will shortly open office in Mexico City as manufacturers' representative and would like to act as agent for manufacturer of heavy chemicals and drugs. Have traveled for several years through Cuba and South America. Address, Spaniard, Box 292, DRUG & CHEMICAL MARKETS.

BUSINESS OPPORTUNITIES

FOR RENT—Fine, light office, over 400 square feet, modern office building, downtown; $1,000 per year. Charles B. Chrystal Co., Inc., 11 Cliff St., New York City.

HELP WANTED

WANTED exceptionally well trained young chemist, with good school record, to take charge of laboratory in moderate size manufacturing plant in Buffalo, N. Y. Work is of an organic nature with control standards employing physical and colloidal chemistry. Must be energetic, serious-minded and highly systematic. Working conditions are pleasant and a good future is offered. Reply to 276, DRUG & CHEMICAL MARKETS, stating salary expected, age, height, weight, previous experience, degree, school obtained, references. All correspondence treated confidential.

WANTED—Registered drug men who are desirous of making connections with a growing chain of stores who have some exceptional opportunities. Box 265, DRUG & CHEMICAL MARKETS.

WANTED—CHEMIST OR OPERATOR EXPERIENCED IN THE MANUFACTURE OF PHOSPHORUS TRICHLORIDE AND OXYCHLORIDE. In answering please write fully your experience and state salary desired. Here is a good opportunity for right party. A. B. 283, DRUG & CHEMICAL MARKETS.

HELP WANTED

SALESMAN to sell a line of lacquers, enamels and celluloid colors. Give references. Address Box 284, DRUG & CHEMICAL MARKETS.

SALESMAN traveling, who knows the essential oil, baker supply, and bottling trade. Must know these lines thoroughly. Answer stating age, experience, and other particulars. Box 270, DRUG & CHEMICAL MARKETS.

WANTED by large industrial corporation organic research chemist with M.A. or Ph.D. degree. No practical experience required. Box 285, DRUG & CHEMICAL MARKETS.

WELL-KNOWN concern manufacturing and selling sizing and finishing compounds, will engage one or two men experienced in this line, preferably those having some mill acquaintance. Address your reply to Room 1007, 7 East 42nd Street, New York.

SITUATIONS WANTED

ORGANIC CHEMIST, with wide experience along pharmaceutical and biological products, cosmetic preparations, fine organic chemicals, as operator and research chemist, desires a position of responsibility. Box 263, DRUG & CHEMICAL MARKETS.

SITUATION wanted by progressive and thoroughly trained wholesale drug man 38 years of age willing to go anywhere. Box 273, DRUG & CHEMICAL MARKETS.

Wants and Offers—The Marketplace of the Drug and Chemical Industries

SITUATIONS WANTED

CHEMIST, with research, plant, and analytical experience open for engagement in any of above capacities. Box 277, DRUG & CHEMICAL MARKETS.

CHEMICAL ENGINEER, 10 years American & European experience; executive with knowledge of business methods, explosives, heavy chemicals, dye intermediates. Address Box 281, DRUG & CHEMICAL MARKETS.

YOUNG competent chemist, one year's experience with large soap manufacturer, four years with large vegetable oil refinery, age twenty-five, B.S in chemistry, desirous of position offering opportunity of plant work. Address Box 291, DRUG & CHEMICAL MARKETS.

GRADUATE Chemist (Cornell 1915). Executive. Thirty and married. Had seven years varied experience. Last five superintendent of plant. Desires position preferably on sales force and to act as consultant on plant problems. Address Box 290, DRUG & CHEMICAL MARKETS.

DRUGS AND CHEMICALS

OFFER wanted for 20% Arseno Pyrite Ore carload lots F.O.B. Los Angeles, Calif. Wagner, Henkels & Daue, Liberty Trust Bldg., Phila., Pa.

OFFER—Ten tons Mexican Damiana Leaves 10c per pound net cash on net weights ex dock Los Angeles. B. W. Osborn Company, 226 Higgins Bldg., Los Angeles, Calif.

OFFER quantity of Zinc Yellow, approximately 5,000 pounds. Submit offer to Box 274, DRUG & CHEMICAL MARKETS.

DRUGS & CHEMICALS

FOR SALE—Sodium Salicylate, Sodium Bromide, Acetyl Salicylic Acid, all 5 grain tablets in bottles, standard makes, very low prices. Address Box 287, DRUG & CHEMICAL MARKETS.

OFFER great quantities Spike Oil, Rosemary Oil, Uva-Ursi Leaves, Aniseed and other Spanish articles. Escribano Sons Company, Murcia, Spain.

FOR SALE: Calcium Sulphite ($CaSO_3$) in barrels, prime, 10c lb., Calcium Borate, barrels, 10c lb. Parex Mfg. Co., 30 Church St., N. Y. C.

OFFER WANTED for Strontium Carbonate and Sulfate Ores, Carload lots F.O.B. California. Wagner, Henkels & Daue, Liberty Trust Bldg., Phila., Pa.

FOR SALE: Methyl Violet Base, 1,000 lbs.—75c per lb. Spirit Nigrosene, Blue Shade, 1,400 lbs., 35c per lb., both in stock, New York. Box No. 282, DRUG & CHEMICAL MARKETS.

LUBRICANTS. CASTORBLEND OILS. Pure Vegetable Castor Oil blended with high grade petroleum lubricants combines their advantageous qualities. For sale by Castor Oil Products Co., P. O. Box 758, Houstor, Texas.

OFFER, tank car lots Mixed Acid—79% Sulfuric, 2¼% Nitric. Cars only. Box 280 DRUG & CHEMICAL MARKETS.

PLANT EQUIPMENT

WANT, No. 1 Meade Mill or similar type. State condition and price. Box No. 278, DRUG & CHEMICAL MARKETS.

PLANT EQUIPMENT

FOR SALE: 1—12 in. Ross Disintegrator Jacketed Pebble mills, 2 Phase motors and laboratory apparatus. Box No. 279, DRUG & CHEMICAL MARKETS.

FOR SALE—4 Cypress Stave Tanks with agitators, and all gears and shafting complete—capacity 2,372 gallons each. Set up, never used—absolutely new. Were purchased for making Arsenate of Lead. Address Box 286, DRUG & CHEMICAL MARKETS.

FOR SALE—A low voltage Connecticut Dynamo & Motor Co., 6 to 12 volt, 5,000 to 2,500 ampere, double commutator, used but one month, in guaranteed first class condition. Fields separately excited 110 volt DC. With this, copper buss bars, bent, shaped and bored for splice connections, of ample capacity for entire output plus 25% overload. Surplus equipment, and a good buy. Box 289, DRUG & CHEMICAL MARKETS.

MISCELLANEOUS

ASK THE Bureau of Employment of the Chemists' Club (Agency) 52 East 41st Street, New York City. If you need a chemist (man or woman) for the laboratory or works. If you wish a position for the practice of your profession. No charge to employers. Moderate fee to applicants. Prof. Herbert R. Moody, Chairman Club Committee.

FOR SALE—Complete bound Sets Journal Soc. Chemical Industry, Journal Chemical Soc.—London, The Analyst-London, Chemical News, "Berichte" Vol. 1-4 (1868-71). Trans. Amer. Electro Chem. Soc. and others. Box 288, DRUG & CHEMICAL MARKETS.

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For full particulars as to products and addresses see Index of Advertisers on the page following.

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The Dow Chemical Co.
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B. G. Feinberg
Alex C. Fergusson, Jr.
General Chemical Co.
Grasselli Chemical Co.
W. F George Chemicals, Inc.
Wm. S. Gray & Co.
R. W. Greeff & Co.
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International Salt Co.
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Stein Hall & Co.
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The Warner Chemical Co.
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H. A. Metz & Co.
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Monsanto Chemical Works
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E. I. du Pont de Nemours & Co.
Ellis Jackson & Co.
Gary Chem. Co.
Grasselli Chemical Co.
Heller & Merz Co.
H. A. Metz & Co.
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New Brunswick Chem. Co.
Newport Chemical Works
Pharma-Chemical Corp.
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E. I. du Pont de Nemours & Co.
Heller & Merz Co.
Jordan Coal Tar Products Co.
H. A. Metz & Company
Monsanto Chemical Works
National Aniline & Chemical Co.
Newport Chemical Works
Protexol Corp.
Southern Dyestuffs Co.

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Jose Lopez
Magnus, Mabee & Reynard, Inc.
Morana, Incorporated
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EQUIPMENT

Buffalo Foundry & Machine Co.
The Chemical Age
Chemical Trade Journal
Nashville Industrial Corp.
La Revue des Produits Chimiques
The Yakugyo Shuho

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